



The

# HEMIST AND DRUGGIST

or RETAILER - WHOLESALE - MANUFACTURER

ished 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3 2 7 7  
XXXXVIII

NOVEMBER 28, 1942

Annual Subscription (with  
Diary) 25/-. Single Copies 9d.



TRADE  
MARK

**'MERTHIOLATE'**

BRAND

*Sodium Ethyl Mercuri Thiosalicylate*

'Merthiolate' is particularly distinguished by its low toxicity and high bacterial efficiency. It is non-irritating in the dilutions recommended, non-staining and stable in solution. 'Merthiolate' Preparations meet every requirement of the effective germicide.

'Merthiolate' is available in the following forms—

SOLUTION, TINCTURE, OINTMENT, OPHTHALMIC OINTMENT  
SUPPOSITORIES AND CREAM

**ELI LILLY AND COMPANY LIMITED**  
**BASINGSTOKE AND LONDON**

# WRIGHT, LAYMAN & UMNEY LTD.



## DAKIN BROTHERS LTD., LONDON



## FOR WORLD-WIDE SERVICE

AN ASSOCIATION

FOR THE MANUFACTURE OF PHARMACEUTICAL PREPARATIONS OF THE FINEST QUALITY  
AND THEIR DISTRIBUTION THROUGHOUT THE UNITED KINGDOM AND THE WORLD

*All enquiries to be addressed to the registered offices at 46, Southwark St.  
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## More 'Adexolin' for selective prophylaxis

Protection for all and sundry with vitamins A and D must make way for selective prophylaxis in wartime. Great care, therefore is needed in the choice of cases given 'Adexolin' Capsules, even though more have been made available by the release of extra supplies of vitamin A.

Those who have first call on 'Adexolin' Capsules are, of course, expectant mothers. The next priorities might go to those known to be subject to recurrent infections (e.g., whether affecting the respiratory or genito-urinary mucous membranes); the returned sanatorium case; the weedy adolescent — all of whom qualify at some time for 'Adexolin.'

Selective prophylaxis with 'Adexolin' Capsules, therefore, means their prescription to suitable cases in their turn. Tins of 25 and 100. Dispensing size 1,000.

## ADEXOLIN Capsules

GLAXO LABORATORIES  
LTD.

PRODUCT OF THE  
GLAXO LABORATORIES

GREENFORD, MIDDX.  
BY Ron 3434





# "National Dispensing Bottle.

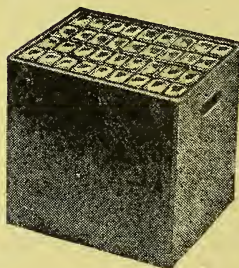
are Strong, Serviceable and Sure-sealing

NEATLY PACKED IN 6 DOZEN  
RETURNABLE CARTONS

- ★ CONVENIENT IN SIZE
- ★ EASY TO HANDLE
- ★ UNIFORM IN QUALITY

ALSO . . . Cork mouth bottles  
WASHED & PAPERED  
Screw mouth Bottles  
WASHED & CAPPED

SCREW CAPS SUPPLIED IN  
WHITE-ENAMELLED METAL



## Vials

of "NATIONAL" quality

Ranging in size  $\frac{1}{2}$  oz. up to 3 oz.  
Plain or teaspoon graduations  
Medium and tall types

MANUFACTURED IN BEST QUALITY  
WHITE FLINT, AND PACKED IN FREE  
RETURNABLE CARTONS



Restrictions outside our control, may  
not allow us to meet every requirement

## National Glass Works (York) Ltd

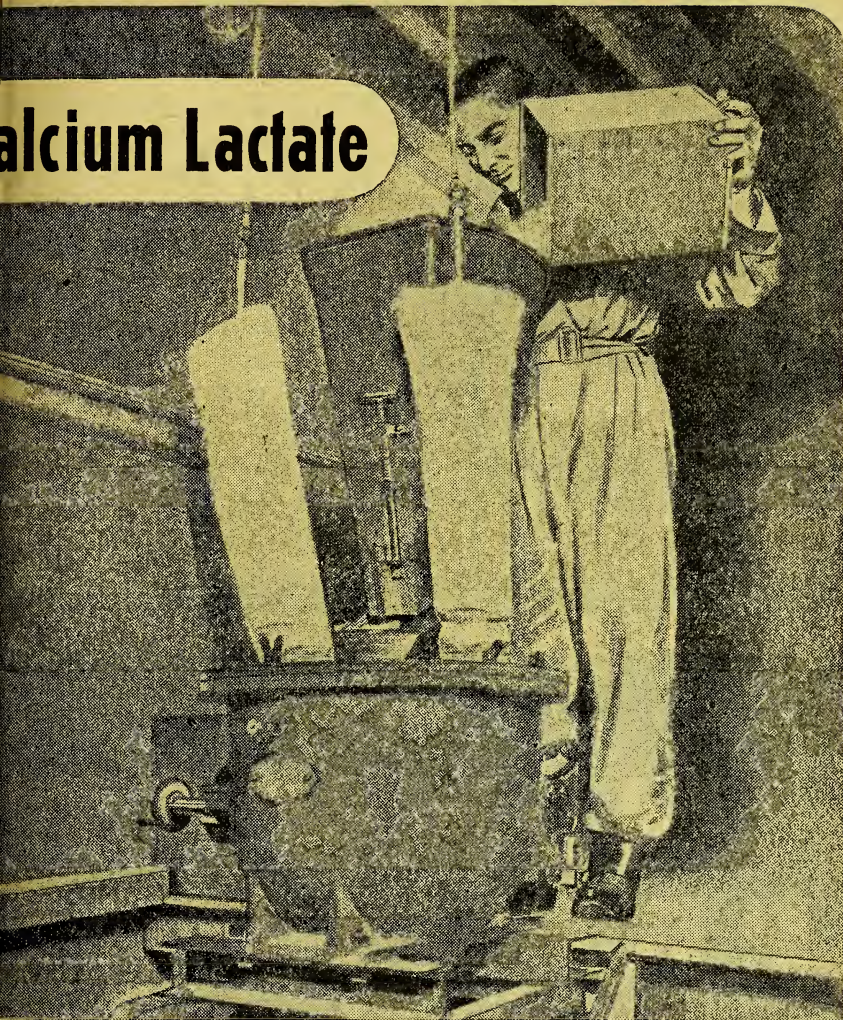
Works: FISHERGATE, YORK  
Telephone: York 3021

London Office: 105 HATTON GARDEN, E.C.  
Telephone: Holborn 214

WHOLESALE ONLY



# Calcium Lactate



**FINE CHEMICAL WORKS**

**EVANS**

EVANS SONS LESCHER & WEBB LTD.



# KERFOOTS M E D I C A T E D PASTILLES

Limited quantities are available  
for existing customers whose orders  
will be dealt with in rotation.

MENTHOL & EUCALYPTUS • ANTISEPTIC THROAT  
CATARRH • GLYCERINE OF THYMOL

Thomas Kerfoot & Co. Ltd., Vale of Bardsley, Lancashire

P2

# THE CHEMISTS' PRINTERS

FOR OVER SIXTY YEARS

THOMAS WAIDE & SONS, LTD.  
KIRKSTALL HILL  
LEEDS



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**CALVEX**  
BRAND  
CARBOLIC  
**OINTMENT**  
YOUR FIRST AID

**KEEP IT ON DISPLAY!**  
National advertising ensures public demand

Recommend Calvex for Chilblains, Chapped Hands, Piles and Ulcers

## The "MODERN" TEAT

ANTI-COLIC. RECOMMENDED BY HOSPITALS, DOCTORS AND NURSES

- Ball Top, one-hole perforation, ensuring constant and steady flow.

- Buffer shoulder protects baby's mouth.

- Tab enables teat to be slipped over bottle in an instant with minimum handling.



- General Resiliency MAKES IT NECESSARY FOR BABY TO WORK JAWS THEREBY RESEMBLING THE NATURAL NIPPLE.

- Collar ensures firm grip on bottle which CANNOT BE PULLED OFF BY BABY.

- Will stand Repeated STERILISATION.

MODERN in design and must be TRIED to be appreciated.

### NEAREST TO NATURAL FEEDING

The "MODERN" Teat has been specifically designed to meet the needs of both MOTHER and BABY, and—what is of vital importance in these days—it LASTS LONGER. It is hygienic, odourless and tasteless.

OBTAINABLE OF ALL WHOLESALEERS

THE CANNON RUBBER MANUFACTURERS LTD., LONDON, N.17

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## Build up your business on MOORLAND demand

The customers you need are those who for good reason deal with you regularly. MOORLANDS supply just that reason. Simply because the demand for them is an everyday demand. Let your customers see that they can always rely on obtaining their MOORLANDS from you, by displaying them constantly and prominently.

W. B. CARTWRIGHT LTD., RAWDON LEEDS.



**DIGNIFIED  
APPEAL**

ASK YOUR CHEMIST FOR  
RENDELL'S

NURSE DREW'S BOOKLET  
FREEDOM AND SELF ASSURANCE  
RENDELL'S is the simplest method  
CAN HAVE PERFECT  
ASK YOUR CHEMIST FOR

THE high standard of advertising which characterises Rendell's Products is in keeping with their excellence of manufacture. The pharmacist who displays Rendell's Products increases prestige and turnover alike. Keep ample stocks of Nurse Drew's Booklet, "Hygiene for Women," which thousands of women are demanding daily.

**Rendell's**  
PRODUCTS  
FOR FEMININE HYGIENE

# Tablets



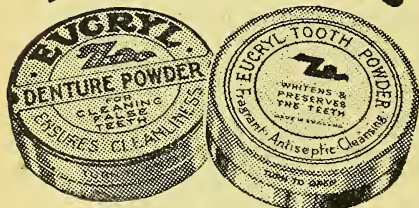
**ARTHUR H. COX & CO. LTD. BRIGHTON**

THE  
SPECIALISTS  
EST 1839

# Pills

## EUCRYL

DENTIFRICES



BOUGHT ON DISPLAY TERMS YIELD  
PROFIT ON:—

SELLING PRICE

**39%**

Eucryl Tooth Paste has an increasing Sale.

BUYING PRICE

**63.6%**

**EUCRYL LTD.**  
**SOUTHAMPTON**

## FRAGRANT TONIC HAIR CREAM

“ Makes the hair behave ”

Prepare your own supplies of this high grade cream, easy to make up, costs less than 2d. per oz. All materials available, also Bottles, Screw Caps, Corks and smart Gold Seal labels. Send stamp for List.

**BRICCAS LTD.**

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## CORKS!

STOPPERS. ETC.

**C. OLLEY & SONS LTD.**

CAMPERDOWN ST. & GT. ALIE ST.  
LONDON, E.1.

Established 1844



# INGRAM'S NEW PATENT GREEN BAND TEAT

*An addition to Ingram's Original "AGRIPPA" SERIES*



No. 1  
'Agrippa'  
shape

THE  
**SPIRAL**

## GREEN BAND TEAT WITH A ROLLED END

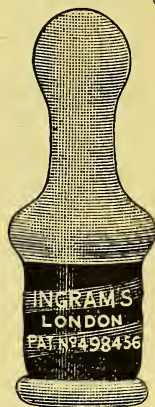
The Harder the teat is pulled the tighter it grips.

Fits on practically all feeding bottles.

The Patent "Spiral" Band is now fitted to Ingram's four popular shapes.

**ON THE P.A.T.A.**

from all Wholesale Houses.



No. 2  
'Cherry Top'  
shape



No. 3  
'Bulb Top'  
shape



Valve



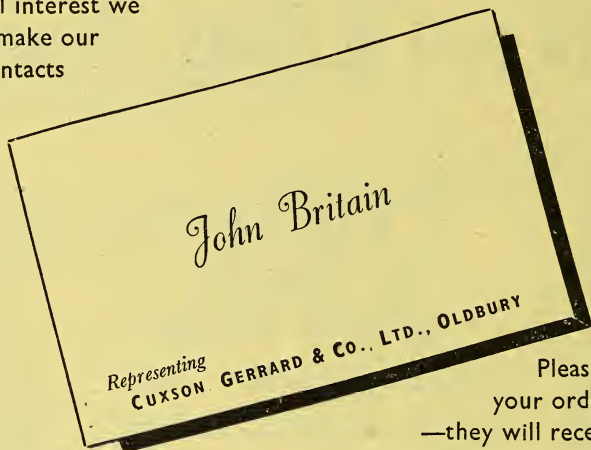
No. 4  
'Ball Top'  
shape

**J. G. INGRAM & SON, Ltd.**

(Established in 1847)

The London India Rubber Works, E.9

Fighting and working in the  
National interest we  
cannot make our  
usual contacts



Please send on  
your orders direct  
—they will receive every  
consideration.

... — The Traveller

## PLASTIC MOULDINGS

ESCO (RUBBER) LIMITED  
78-80 STAMFORD HILL  
LONDON, N.16

SUPER QUALITY

*Absorbent  
Cotton Wools*  
AND  
COTTON WADDINGS

Samples and Particulars from  
THE IMPERIAL PATENT WADDING CO LTD  
Dept. B. 16, TARIFF ST., MANCHESTER Phone: CENTRAL 176



“ANGLIAN”

SURGICAL DRESSINGS & SANITARY TOWELS

Write **CROSSKILLS' of NORWICH**

EXTENSIVE STOCKS

::

PROMPT SERVICE

PHONE  
20954



**SURGICAL DRESSINGS,  
INSTRUMENTS, APPLIANCES  
AND CHEMISTS' SUNDRIES**

**THE  
HOUSE OF MAW  
Still efficiently  
at your Service**

**S. MAW, SON & SONS, LTD.  
ALDERSGATE HOUSE,  
NEW BARNET, HERTS.**

TELEPHONE: BARNET 5555

TELEGRAMS: ELEVEN, BARNET

# The Acid Test



The Acid Test of Quality is repeat business not created by advertising but by the quality of the goods themselves.

## SILCOT (COTTON WOOL) AND Silvena (SOLUBLE) SANITARY TOWELS

sell on this basis because they are made to definite standards and subject to careful inspection before they are packed.

"Reference goods sent 5th August, customers are well satisfied with the quality of these Sanitary Towels and shall be glad if you will now send me double the quantity."

*From Fife Scotland.*

### PRICES

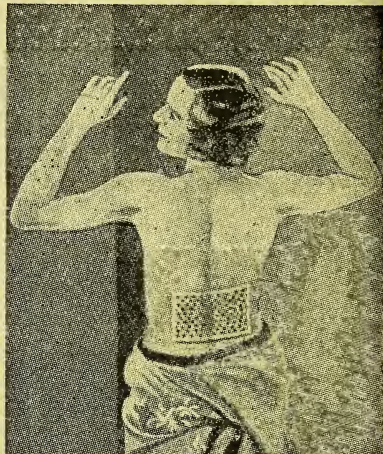
	Wholesale	Retail
	Packets of 12	
<b>SILCOT Style 1</b> (with non-absorbent back)		
Standard Size ...	13/3 per doz. pkts.	1/6 pkt.
Large Size ...	17/6 " " "	2/- "
Extra Large Size ...	22/- " " "	2/6 "
<b>SILCOT Style 2</b> (All White Wool)		
Standard Size ...	13/3 " " "	1/6 "
Large Size ...	17/6 " " "	2/- "
Extra Large Size ...	22/- " " "	2/6 "
Maternity Pad ...	26/- " " "	3/- "
<b>SILVENA</b> (Soluble)		
Standard Size ...	11/8 " " "	1/4 "

ALL MADE WITH LOOPS.

Suitable Showcards in colour with orders for 1 Gross Packets assorted.

**JAMES MACDONALD,**  
DAWSON STREET, GREENGATE, SALFORD, 3

**WILLIAM MATHER, LIMITED**  
DYER STREET, MANCHESTER. (Est. 182)



ZINC OXIDE and RUBBER ADHESIVE PLAISTER ON SPOOLS  
POROUS PLAISTERS. ELASTIC PLAISTER BANDAGES  
ANTISEPTIC PLAISTER DRESSINGS, "CROCUS" CORN COMFORT, Etc.

# ZEAL

## Clinicals

The Choice of Experts

BRITISH  
MADE

NO HIGHER  
IN PRICE THAN  
NONDESCRIPT  
MAKES

Also Household, Bath  
and Works Thermometers,  
the best of their kind

**G. H. ZEAL LTD.**

LOMBARD RD., MORDEN RD.,  
LONDON, S.W.19

Phone: Liberty 2283-4-5





*Reprint of TIMES advertisement*

# THE MISSING LINK

In the proposals made by the British Medical Association for the re-organisation of the medical services, we look in vain for any mention of a department of orthopædics.

Presumably at the health centres to be set up in each district and served by a pool of doctors and specialists, provision will be made for the examination and correction of feet. But we have often noticed that while schemes for the improvement of public health nearly always lay stress on dental and ophthalmic service, orthopædic service has a habit of being overlooked.

Yet how important it is. Major and minor foot ailments are far too common, as every doctor knows. The public is sadly ignorant and neglectful of foot hygiene. Style, rather than suitability for purpose, determines the choice of shoes. And when at last partial disablement drives sufferers to the doctor—the damage is done.

By this series of advertisements, we at the Scholl Organisation are doing our best to bring foot-care into the limelight. And in a measure, we are succeeding. Industrial concerns are seeking our aid and advice in setting up foot-clinics for their workers. A larger number of doctors are showing interest in our work on arch supports and corrective hosiery. Our chiropodists are treating a far greater number of patients sent to them by doctors. Indeed, in a modest way we are supplying the missing link.

But that is not far-reaching enough. Foot-care and treatment must take its place as a subject of first-class importance in both the public and the professional mind. Until it does, no scheme for the re-organisation of the health services will be complete, and Britain will not be a truly healthy nation.

Scholl Mfg. Co. Ltd. 182-204 St. John Street, London, E.C.1

# 'SURE SHIELD'



## Products

Due to shortage of supplies, combined with the curtailment of our staff, we wish to assure our many trade friends that we are using every effort to maintain an equitable distribution of our Products.

### Please Note

- 1st. All Orders are forwarded in strict rotation and we are now 5-6 weeks behindhand in delivery.
- 2nd. Due to the position, all additions can only be treated as separate orders

### Sugar Confectionery Order

All our products are Medicinal and not subject to the above order, and as such, are subject to Purchase Tax. Our printers have in hand a range of formula labels to meet the requirements of customers who retail goods from bulk parcels—these will be supplied at a nominal charge.

**Thos. Guest & Co. Ltd.** *Manufacturing Chemists*  
Carruthers Street, Manchester, 4

## THE "MATER"

### CLINICAL

REGD.  
The position of the Mercury column is at once perfectly plain. Red markings above 90.4

## ALL TYPES OF CLINICAL AND OTHER THERMOMETERS

### PERKEN, SON & CO. LTD.

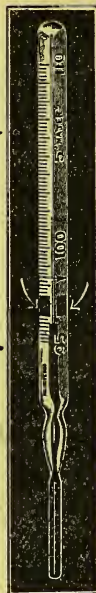
(ESTABLISHED 1852)

Price List on Application:

8 HATTON GARDEN  
LONDON, E.C.1

Telephone: 0724 Holborn

Telegrams: "Optimus, Smith, London"



## "WEBSTER'S"

### STAINLESS STEELWARE

Specialists in modern equipment for manufacturers i.e., Funnels, Buckets, Jugs, Mixing Containers, Measures, Percolators, Boggles, etc., etc.

Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals as an economical proposition.

The use of Stainless Steel equipment, designed on modern principles, enables overhead costs to be reduced and makes for more convenient and better working conditions.



**ISAAC WEBSTER & SONS, LTD.**  
ABBAY WORKS, KIRKSTALL, LEEDS,

Telephone: 51580 Healdingley. Telegrams: Isaac Webster, Kirkstall



SPECIALISTS IN THE MANUFACTURE OF

# TABLETS & PILLS



SINCE

1860

Also... AMPOULES · EMULSIONS · EXTRACTS  
INFUSIONS · OINTMENTS · SUPPOSITORIES.  
PROPRIETARY AND OWN FORMULA PILLS AND TABLETS

*We invite enquiries from Wholesalers and Exporters for all  
classes of Pharmaceutical Preparations in bulk or packed*

**RICHARD DANIEL & SON, LTD. DERBY.**

TELEPHONE DERBY 4266/7/8

TELEGRAMS: DANIA DERBY

## LIVERPOOL SCHOOL OF PHARMACY

Principal:

H. HUMPHREYS JONES, F.I.C., F.C.S., Ph.C.

Preparation for the

INTERMEDIATE AND QUALIFYING EXAMINATIONS  
of the PHARMACEUTICAL SOCIETY

and for the

ASSISTANTS' DISPENSERS' EXAMINATION of the  
SOCIETY OF APOTHECARIES

Full particulars from 2 BLACKBURN PLACE, 8

USED

## TEA CHESTS, CARTONS WOOD BOXES GUM TAPE

LARGE STOCKS CARRIED

The Buckinghamshire Paper & Box Co. Ltd.  
Devonshire Works, Chiswick, London, W.4

Phone: Chiswick 2954/5/6

# LABELS

**CARILLON PRESS Ltd BOURNEMOUTH**

*Artists in the Production of Fine Labels*

**Specialists in the  
Design & Printing  
of Medical & Toilet**

**Labels** — Owing to new  
regulations 6d. must be sent be-  
fore we can forward sample range

# Iron requirements of the Human Body



## ‘Ribothiron’

Iron is an essential for life—a vital element in the formation of hæmoglobin. Physiologically, need for it is greatest during adolescence, through the menarche, and in pregnancy and lactation. Iron deficiency anæmias are most likely to occur during these periods.

Since iron can be utilised only after it has been reduced to

the ferrous state, ‘Ribothiron’ Tablets are especially indicated in restoring and maintaining the iron requirements of the patient.

Each tablet contains ferrous sulphate 3 grs., together with Vitamin B<sub>1</sub> (thiamine hydrochloride) 0.2 mgr. and Vitamin B<sub>2</sub>, (riboflavin) 10 micrograms. These vitamins are particularly helpful, and in many cases of anæmia there is a concomitant deficiency of these Vitamin B factors.

‘Ribothiron’ Tablets are green-coated and are supplied in bottles of 40.

*Sharp & Dohme Ltd*

MULFORD BIOLOGICAL LABORATORIES

HODDESDON

HERTS



*Your* STANDARD OF RELIABILITY



*Insist on -* **Staff Allens**  
**ESSENTIAL OILS**

STAFFORD ALLEN & SONS LTD. WHARF ROAD, LONDON, N.I. Phone Clerkenwell 1000 (7 lines)

TAS/AL.96

B



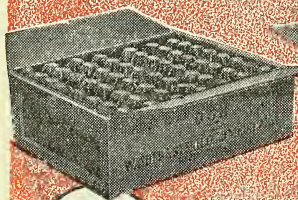
**GREATER**  
 THAN EVER IS THE  
**DEMAND** FOR



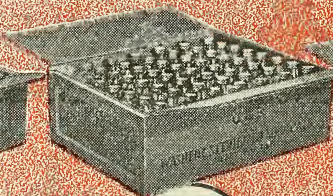
PERFECTED  
**WHITE  
 CAP**

# U.G.B.

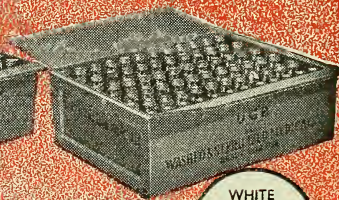
## MEDICAL BOTTLES



CORK  
 MOUTH



WHITE  
 ENAMELLED  
 METAL  
 SCREW-CAP



WHITE  
 KORKALITE  
 MOULDED  
 CAP

**WASHED AND STERILISED  
 —READY FOR USE—**

**THE IDEAL  
 DISPENSING BOTTLE  
 IN ANY EMERGENCY**

**UNITED GLASS BOTTLE**

**MANUFACTURERS LTD.**

*The Largest Manufacturers of Glass Bottles  
 in Europe*

**8 LEICESTER STREET, W.C.2.**

Telephone: GERrard 8611 (10 lines)

Telegram: Unglaboman, Lesquare, London



# Dō-Dō-

*the Asthma Tablet  
which is on National  
Service - always*

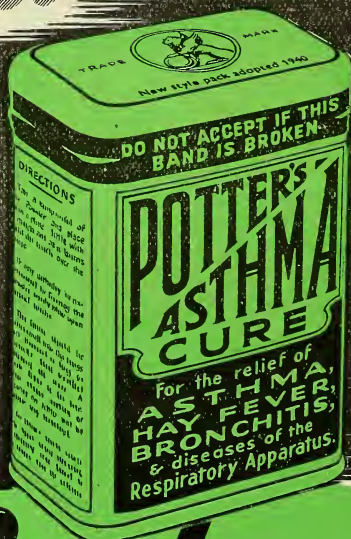


RETAIL PRICES  
INCLUSIVE OF TAX

1/1 $\frac{1}{2}$  - 3/4 $\frac{1}{2}$  - 11/10

INTERNATIONAL LABORATORIES LTD.  
CHARLBURY, OXFORD • Telephone Charlbury 29

# Potter's



# Asthma Cure...

Price 2/2 per tin  
(Including Tax)  
Wholesale 18/- per doz.  
(Packed in half doz.)  
Plus 3/- per doz. Tax

AN ESSENTIAL LINE FOR EVERY CHEMIST THIS WINTER.  
THIS WIDELY KNOWN AND RELIABLE REMEDY HAS WON  
THE APPROVAL OF THE PUBLIC... A GOOD LINE FOR YOU!!

## POTTER and CLARKE LTD

60-64 Artillery Lane, LONDON, E.1  
77 Dantzic Street, MANCHESTER, 4

'Phone: B1Shopgate 4761 (6 lines)  
'Phone: B1Ackfriars 8734



# WAR-TIME MARKET NEWS

Summarising war-time opportunities, special notices, new packaging and new products

## JACKSONS FEBRIFUGE

and  
DRAWING OINTMENT

are now labelled to  
comply with the  
Pharmacy & Medicine  
Act, 1941

GEO. JACKSON & SONS, LTD.  
BREWERY STREET, HARPURHEY  
MANCHESTER



## Eau de Cologne and Beauty Aids

BLUE AND GOLD LABEL  
MADE IN ENGLAND

All enquiries to:—

R. J. REUTER COMPANY, LTD.  
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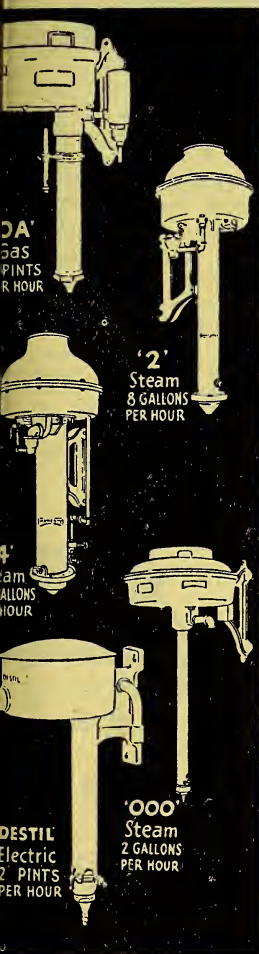
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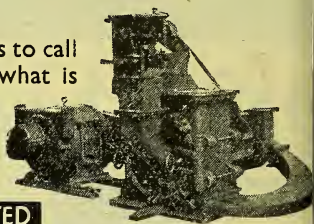
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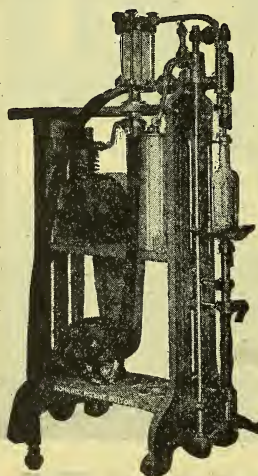
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**NEWS OF THE WEEK**

**Tar Fuels Chart.**—The executive committee of the Association of Tar Distillers has arranged for the publication of a chart showing the relationship between tar fuels of different viscosity and their atomising temperatures, etc.

**Commodity Insurance Scheme.**—The Board of Trade has, with the approval of the Treasury, decided that in respect of the period beginning December 3, 1942, and ending March 2, 1943, the rate of premium payable under any policy issued under the Commodity Insurance Scheme shall continue to be at the rate of 5s. per cent. per month. To meet the wishes of traders whose insurance cover remains at a substantially constant level from month to month, policies under the Commodity Insurance Scheme may, as from December 3, 1942, be effected for a fixed sum for a period of three months, ending March 2, June 2, September 2, or December 2, as the case may be. Supplementary policies expiring

with the main policy may also be effected. The monthly form of policy for a fixed sum and three-monthly adjustable policies hitherto issued will be continued.

**Pharmaceutical Corps.**—New local secretaries have been appointed as follows:—Essex, Miss C. A. Jennings, M.P.S., King George V Hospital, Eastern Avenue, Ilford; Surrey, Miss I. Harris, M.P.S., Croydon General Hospital, London Road, Croydon.

**Research Workers' Conference.**—A conference of chemist members of the Association of Scientific Workers was held in London recently, Dr. H. A. Skinner presiding. Dr. Skinner deplored that a research worker was regarded as a failure if he had not achieved an administrative post by the time he was thirty-five. Dr. F. A. Rudge (head of the chemistry department, West Ham Technical College) regretted that so many technically-trained persons went into the professions instead of into industry.

**Vitamins for Police.**—Liverpool Watch Committee has authorised the purchase of vitamin capsules for members of the local police force.

**Liverpool Registered Sellers.**—The annual report of the Liverpool medical officer of health gives the number of registered sellers of poisons as 440.

**Isle of Man Closing Order.**—Isle of Man shops have been ordered by the Lieutenant-Governor to close at 3 p.m. during the winter months.

**Irish Chemists' Golf.**—The annual meeting of the Irish Chemists' Golfing Society will be held at Jury's Hotel, Dublin, at 8.15 p.m. on December 14.

**Shopping Passes at Wembley.**—Women war workers in Wembley who have had difficulty in shopping are to be given special shopping passes, to enable them to receive special consideration from local traders.

**Dublin Rheumatism Clinic.**—A clinic has been opened in Dublin for the diagnosis and treatment of chronic rheumatic diseases. It will also be used for the study and research of rheumatism.

**Commercial Travellers' Benevolence.**—The annual Court of Governors of the Commercial Travellers' Benevolent Institution will be held at 4B Frederick's Place, Old Jewry, London, E.C.2, at 12 noon on December 29.

**Horse-chestnut Collection in Scotland.**—Scottish manufacturing chemists have intimated that the collection of horse-chestnuts has been so successful in Scotland that the quantity to be delivered is expected to be as much as they can process. Collections have therefore been discontinued in Scotland.

**Medical Aid for Russia.**—A nation-wide appeal for medical aid for soldiers of the Red Army is being launched by the Joint Committee for Soviet Aid. The treasurer of the Committee, to whom donations should be sent, is Sir Peter Chalmers Mitchell, F.R.S., 171 St. Stephen's House, Westminster, London, S.W.1.

**Essex Salaries Agreement.**—The Essex County Council has informed the London County Council that, subject to similar agreement by the other Authorities concerned, it will not employ pharmacists at salaries in excess of the following minimum salaries, annual increments, and maximum salaries:—Pharmacist, Class A, £400—20—500; pharmacist, Class B, £325—12½—375; pharmacist, Class C, £275—10—325; phar-

macist (acting as assistant), £250—10—300; assistant dispenser (unregistered), £175—10—225.

**Hull Effort to Aid Russia.**—A group of Hull men prominent in the medical, pharmaceutical and dental professions has set itself to purchase a complete mobile x-ray unit for service in Russia. Already a useful sum of money is in hand. Arrangements have been made for donations to be received by any local chemist. See also p. 547.

**Purchase Tax on Labels.**—The lists of articles chargeable and non-chargeable with purchase tax have recently been revised. The new lists give the following items as chargeable:—Unprinted labels, tags, etc., of any shape or size; partly-printed labels, etc., designed to be completed in manuscript or by any other means of record; labels, tags, etc., printed for use as addressing or economy labels; other labels, etc., of the kinds used for stationery purposes, including the following, whether plain, partly-printed or fully-printed: Scaling labels for envelopes, etc.; notification labels for attachment to correspondence, invoices or other stationery, such as labels marked "enclosure," account reminders, etc.; price, size and other numerical or similar marking tickets, labels, etc.; whether plain, partly-printed or fully-printed. Articles of the following descriptions, when supplied fully printed (i.e. not intended to be completed in manuscript or otherwise), and not being price, size, or numerical or similar marking tickets, are non-chargeable: Brand labels brand tags, brand seals and brand tickets labels, tags, seals and tickets which are designed to be attached by a manufacturer or merchant to containers of his good solely for the purpose of indicating the grade, type, analysis or other description of the goods or as instruction labels adhesive labels for attachment to correspondence or goods, solely for advertisement purposes. The expression "labels etc.," includes for this purpose all labels tags, gummed seals and gummed tickets pin tickets, clip tickets and similar articles. In general the rate of tax on the article shown as chargeable is 33½ per cent. of the wholesale value.

**Dagenham Conference on Chemists' Hours.**—The Dagenham Council has adopted a suggestion by the local branch of the National Pharmaceutical Union that a conference should be held of its Health Services Committee with medical practitioners, members of the National Pharmaceutical Union and of the Association of



pharmaceutical Employees to discuss chemists' closing hours.

**Manchester Mutual Aid Scheme.**—Manchester Chamber of Commerce, in conjunction with the Chamber of Trade and other interests, has prepared a scheme for mutual assistance in the salvaging of goods after an air raid. The plan will operate between business houses and traders, and will at first be confined to the heart of the city. The Regional Transport Office is expected to provide sufficient transport to work the scheme, and petrol will be supplied to those whose private transport is used.

**Inquiry into Eire Dispensary System.**—The Medical Association of Eire has set up a committee to inquire into the dispensary system in the country. The Committee will examine the system in its broadest aspects, and will draw up a report suggesting improvements and alterations in it to meet modern conditions. The investigation and discussion are expected to occupy some months; when completed it will be sent to the Department of Local Government, the Irish Hospitals' Commission, and other interested bodies. The dispensary system was introduced some seventy or eighty years ago, when conditions were different from those obtaining now, and it is considered by many people never to have been fully satisfactory.

**Address to Newcastle Employees.**—A meeting held on November 8 at Newcastle-on-Tyne was addressed by Mr. Jackson, F.R.S., Leeds (a member of the advisory council, Association of Pharmaceutical employees). Mr. Jackson urged the advantages pharmacists would enjoy as employees backed by a strong Trade Union. If the ever-increasing proportion of employee-pharmacists were to have any say in the shaping of pharmaceutical affairs in the future, membership of the A.P.E., he said, was strongly indicated. Following the address it was unanimously agreed to form a branch of the Association. Mr. Webster was elected chairman, and Mr. J. Ridley, 10 Horsley Terrace, Tynemouth, North Shields, secretary.

**Scottish Chemical Industry.**—Possibilities of developing the chemical industry and the use of hydro-electric power in Scotland were envisaged by Lord McGowan at a private meeting of the Scottish Council for Chemical Industry recently, when it was announced that the Board of Trade had undertaken that Scottish industry would be concentrated only as a last resort, and that

wherever possible the buildings released would be used for alternative production. Lord McGowan said that Scotland's main weakness industrially was its distance from the main consuming market in England. Against that were many assets, such as good ports; reasonably heavy rainfall in the West; coal supplies adequate for many years; and good rail, road and water communications to the district where industrial development was likely. Cheap carbide would almost automatically open up a field of plastics and solvents. Other possibilities were pharmaceutical chemicals and ferro-alloys.

**Blackburn Appeal for Specialised Trading.**—An energetic plea to traders to restrict themselves to their legitimate lines was made at a meeting of Blackburn Retail Confectioners' Association on November 5, when one speaker said he felt thoroughly ashamed of some members of the confectionery trade who stocked such goods as dog foods and powders; whilst others were miniature chemists. "I think it would be a step in the right direction if we could fix a line of demarcation and decide what each class of shop should sell," he said. "This means an interchange of opinion. It is a matter affecting not merely Blackburn but the whole country, and I agree that all confectioners should keep away from pharmaceutical goods as far as possible. There is a difficulty concerning the general stores, but these should not be our example." Other members spoke on similar lines and expressed the hope that the day was not far distant when the staple commodities of each trade would provide a sufficient living for those who followed it.

**Birmingham Analyst's Report.**—Headache powders, seidlitz powders, sulphur ointment and food substitutes were among substances adversely reported on by the Birmingham City analyst during the third quarter of 1942. The headache powder was a proprietary in two portions, weighing 7.1 and 13.6 grains respectively. Only 2 per cent. quinine ethylcarbonate was found, against 10.85 per cent. stated on the label. A director of the manufacturing company, when interviewed by the medical officer of health, stated that quinine had now been omitted from the formula and new labels would be issued. The complaint of variation in weight had been investigated and it was hoped that there would be no recurrence of the trouble. A sample labelled "Grape fruit flavour cordial" consisted of an artificially flavoured 1.8 per cent. solution of

citric acid, and 98 per cent. water; the essence, which should have been in solution, rose to the surface on standing. The word "cordial" was subsequently deleted by the makers from the title. A labelled "Lime flavoured cordial" was an artificially flavoured 20 per cent. solution of phosphoric acid. The product was withdrawn from sale and the stock returned to the makers. A sample described on the label as "vitaminised orange . . . the perfect substitute" and as "genuine orange substitute" consisted of a 10 per cent. solution of citric acid, sweetened with saccharin. A so-called "liquid saccharin" consisted of a 1 per cent. solution of saccharin. The retail sale of such solutions is now forbidden, and the stock was destroyed. The sample of sulphur ointment contained a 12 per cent. excess of sulphur, and the seller was cautioned. A caution was also given to the seller of seidlitz powders found 26 per cent. deficient in weight.

**Deputy Secretary at Ealing.**—A meeting of the West Middlesex Branch of the Pharmaceutical Society was held at Ealing recently, Mr. S. R. Hughes in the chair. Mr. F. W. Adams (deputy secretary of the Society), speaking on the report of the Committee of Inquiry, gave an outline of the findings of the committee and the steps it suggested should be taken to improve conditions in pharmacy. He pointed out that the report was the first attempt to make a plan for dealing comprehensively with existing conditions and to point the way forward rather than to deal with issues piecemeal as they arose. In the subsequent discussion Mr. J. E. GOODALL expressed disappointment with the report, particularly with the proposals relating to dispensing. Mr. N. D. BROWN regretted the omission of concrete proposals in dealing with the remuneration of the pharmacist: a comparison with other occupations would have been instructive. Mr. F. BROWNE suggested that steps should be taken to ensure permanent representation of pharmacy in the event of parliament being reconstituted. Mr. J. ANDERSON STEWART thought competition from the bazaar stores might prove a much greater problem than that of the established multiple firms, and that post-war limitation of activities, on lines laid down in the Location of Retail Businesses Order, would be desirable. Mr. J. G. HAYES inquired whether in any extension of N.H.I. the present rate of remuneration would be revised. Mr. ADAMS gave suitable replies to the questions raised within the terms of the committee's report. Mr. GOODALL

proposed and Mr. G. ROBINSON seconded the following resolution, which was carried unanimously: "That an opportunity be given to representatives from each branch to consider the proposals of the committee of inquiry at a conference."

Mr. BROWN proposed, Mr. HAYES seconded, and Mr. F. G. WELLS supported a vote of thanks to Mr. Adams for his address.

**Irish Drug Association.**—Mr. F. J. MEAGHER (president) was in the chair at a meeting of the committee of the Irish Drug Association held on November 16. He welcomed Mr. John Gleeson, who attended as president of the Pharmaceutical Society of Ireland, and Mr. G. A. MACLEAN who associated himself with Mr. Meagher's remarks. In replying, Mr. GLEESON said he was glad to avail himself of his privileged honorary membership of the committee to attend this first committee meeting since his election, in order that he might assure them of the fullest co-operation being extended by the Council of the Pharmaceutical Society on the excellent work being done in the interests of Irish pharmacists. Originally, continued Mr. Gleeson, the Council and the Association worked in the closest harmony, and if such co-operation had been less evident recently it was his intention to see that it should again increase in the future. Members were reminded that when bread soda was requested and supplied to a customer the correct retail price was controlled by the Prices Commission, namely 4d. per lb. The Price Fixing Order for bread soda specified sod. bicarb., B.P. A lengthy discussion took place on an application from the Irish Union of Distributive Workers and Clerks for a joint deputation under the Emergency Powers Order (No. 166) to urge a Standard Wages and Bonus Order for employees in pharmacy. It was decided to summon a special meeting of the committee together with representatives from the local associations, for November 17, to discuss the matter. The reference in a former report of the committee to the need for exercising care when charging a 6d. dispensing fee for prescriptions for proprietary articles had, was stated, been misinterpreted by some members. To clarify the position members were reminded that in all cases prescriptions must be coded and the dispensing fee charged. When a doctor, however, wrote the name of some common preparation very clearly, or where "in the original container" was written, the individual member should use care and discretion before deciding to charge the dispensing fee.



# TOPICAL REFLECTIONS

## The Scientific Approach

In his twelfth article on "Nutrition in war-time" (pp. 533-34) Dr. Wokes points out that in grappling with dietetic problems arising from communal feeding the scientific approach has not been overlooked. The article makes it clear that while science has already taught much about food values, much remains to be ascertained. Pharmacists are, by the nature of their vocation, interested in nutritional questions; and several come readily to mind on reading his informative account of what may be called vitamin leakage. One such question may be expressed by asking if there is any relation between vitamin-content and flavour. It is common knowledge that vegetables are usually, though not invariably, more appetising when eaten "on the spot" where they grow. Why is this so? Again, have slaughterhouse arrangements any influence on the taste of animal foods? It has been suggested that delay in dealing with animals on their arrival at this destination may adversely affect the meat. And what of the well-hung joint, tested from time to time by inserting a skewer? Or, to turn to the kitchen, how should the cook deal with high game? It is no answer to such queries to tell us that we should eat to live, or that X and Y, historical persons of eminence in their respective spheres, were quite indifferent to the quality of their food. The day may come when cookery will be a science—or, as the late Professor Hantsbury called it, a fine art.

## Doctor's Forecast

The vision of the future offered by Dr. Robert Forgan at Sheffield (p. 530) is at first sight alarming, though no doubt he used the expression "new order" in a Cockwician sense. One's first thought is to ask, with Sir Toby Belch, "Dost thou think there shall be no more cakes and ale?" It is possible, as the speaker suggested, that the art of medicine itself would gradually disappear, to be replaced by a science based on chemical, pathological and biological "facts"; but is it probable? If we could be drilled or regimented into perfect health, medicine or the new science taking its place would presumably be a kind of prophylaxis, for we should have to reckon with the possibility of pathogenic bacteria arising by mutation. We read in your report that the introduction of chemotherapy has already resulted in the dis-

appearance of much of the art of dispensing, with the inference that the process is likely to continue. But we need, I think, to take a longer view. The practice of medicine is becoming, so to say, a more intimate art, an art in which controlled scientific experiment is rightly regarded as a more decisive factor than rule of thumb. What is likely to result? Not that medicaments will be relegated to the dustbin, but more probably that new uses will be found for old remedies. There may be a range of conditions, or more than one, at present outside scientific cognisance and awaiting exploration. Further, to end on a more homely note, man acts, as Burke wrote in 1770, "from adequate motives relative to his interest, and not on metaphysical speculations."

## Medicine Cupboards

The medicine cupboards of old ladies, whether aunts (like the one of your paragraph on p. 523) or not, might furnish material for an entertaining article. Perhaps it already exists in some forgotten publication. If memory serves, neither "Cranford" nor "Our Village" throws any light on these receptacles. A generation or two ago amusing, if occasionally exacting, old ladies kept at hand a formidable battery of remedies for almost every conceivable ailment. Even churchgoing was incomplete without a smelling bottle and a supply of lavender lozenges or the equivalent. Difficult as it is to generalise from instances under one's own observation, I am inclined to think that in normal times the consumption of medicine on the distaff side of a family exceeds that of its male members, whose outdoor activities may more effectually divert their thoughts from personal weaknesses. This was apparently the case for a lengthy period. A twelve-months' bill for medicines from July 1787 to the following July, now before me, bears a preponderance of feminine names attached to the separate items. Thus, for the lady of the house there are entries of six "papers" of "nervous powders," a large box of "nervous pills," a detergent gargle, a stomach bitter mixture, a cordial astringent mixture, and various preparations probably destined for the medicine cupboard, among them spirits of lavender, of hartshorn and of sal volatile. A cook and other female servants were liberally dosed; but a coachman, a postilion and other men were apparently less in want of medical attention.

**Xrayser**

## LEGAL REPORTS

**Unlawful Use of Title.**—At Stratford, London, E., recently, Breezes Pharmacies, Ltd., 151 Plaistow Road, West Ham, were summoned for unlawfully using the title "chemist" in connexion with the retail sale of goods and for unlawfully selling by retail ephedrine contained in a proprietary preparation without being authorised sellers of poisons. Prosecuting on behalf of the Pharmaceutical Society of Great Britain, Mr. C. Morgan said the defendants owned six shops in the area, but the summonses were issued in respect of two shops only, at 100 High Road and 61 Lea Bridge Road, Leyton. At the Lea Bridge Road shop he had bought poisons from an unqualified assistant, who admitted that the business was being carried on as a drug store. On the articles sold at these shops, the labels bore the word chemist, although the company were not authorised to have this on their labels. A fine of £10 was imposed for the first summons and £20 for the second.

**A Flapjack is a Toilet Requisite.**—Mr. Darracott Seymour, an official of the Board of Trade, challenged, before a King's Bench Divisional Court, London, on November 11, a decision of the stipendiary magistrate at Clerkenwell in favour of E. Joseph, Ltd., of Hattton Garden, E.C.

It was stated that E. Joseph, Ltd., had been summoned on an information which alleged that they sold flapjacks at a price above that stipulated by the Prices of Goods regulations. By those regulations, toilet and hygienic preparations and requisites were covered by control as to price. Flapjacks were receptacles for face powder. The magistrate stopped the case after the first witness for the prosecution had been called, deciding that flapjacks were not toilet or cosmetic requisites but cosmetic accessories and he dismissed the information on this ground.

It was now contended by Mr. A. E. Beecroft, for appellant, that the magistrate took too narrow a view of the meaning of "requisite." However, the decision would be only of academic interest because last May the Board of Trade included flapjacks among the price-controlled articles. The Board of Trade was anxious to get a decision on the meaning of the word. Mr. W. A. Raeburn argued for the respondent company that the price control aimed at toilet and cosmetic matters analogous to preparations. Flapjacks were not necessarily used for holding face powders. Counsel submitted that the articles should

be dealt with with precision, and the trade should not be left in doubt into what class the article fell.

The appeal was allowed, the Lord Chief Justice saying a toilet requisite was a thing that was in common use and required by people commonly for toilet purposes. The magistrate was wrong and the case would go back to him that he might hear the rest of the evidence.

## COMPANY NEWS

**FISHWICK LABORATORIES, LTD. (P.C.).** Capital £1,000. Chemists, druggists, distillers, etc. Frederick A. Dixon, M.P., and Mary A. Dixon, directors. R.O.: Cross Street, Preston.

**MIRACULIN, LTD. (P.C.).**—Capital £100,000. Manufacturers, wholesale, retail, consulting and analytical chemists, etc. Harry W. Pears, M.P.S., and Keith Von Der Heyde, directors. R.O.: Hove Park Laboratories, Hove, 4, Sussex.

**CHEMICAL ACCESSORIES, LTD. (P.C.).** Capital £2,500. Manufacturers, importers and exporters of and dealers in chemical products, drugs, etc. First directors to be appointed. R.O.: 82 King William Street, London, E.C.4.

**CABAS CHEMICAL CO., LTD. (P.C.).** Capital £100. Manufacturers of and dealers in chemicals, drugs, disinfectants, etc. Stanley G. Caulkett, Sydney F. Dennis and Lionel G. Smedley, directors. R.O.: 14 Broadway, Leigh-on-Sea.

**SYNTHETIC RESINS, LTD. (P.C.).**—Capital £2,500. Manufacturers and refiners of and dealers in resins, chemicals, oils, waxes, gums, etc. Richard T. Sobey and Wilfrid Oliver, directors. R.O.: Cheshire Street, Works, Mossley, Lancs.

**HOOD, DAVIS & CO., LTD. (P.C.).**—Capital £2,000. Manufacturers of and dealers in fruit cordial concentrates and essences, mineral waters, etc. Roy Hood and John R. Thomson, directors. R.O.: 49 Old Bond Street, London, W.1.

**STANNING PROPRIETARIES, LTD. (P.C.).** Capital £10,000. Chemists, druggists, manufacturers of and dealers in medicinal preparations, etc. Frederick T. Smith and Leslie Cork, directors. Solicitors: Herbert Oppenheimer & Co., London, W.C.2.

**MACLACHLAN, CLARK & CO., LTD. (P.C.).**—Capital £5,000. To acquire the business of MacLachlan, Clark & Co., manufacturers and analytical chemists, etc. George A.



Lachlan and Alexander F. Rattray, directors. R.O.: 10 Lister Road, Hillington, Glasgow.

**MORTON PRODUCTS, LTD. (P.C.).**—Capital £100,000. Manufacturing chemists, dealers in chemical, medical, surgical and hygienic products, equipment and sundries, etc. Robert G. Torrens and Louis S. Allison, directors. R.O.: 85 Wimborne Road, Bournemouth.

**INSTITUTE OF MEDICAL LABORATORY TECHNOLOGY.**—Limited by guarantee with share capital. To ascertain and notify most up-to-date practice relating to medical laboratory technology, to grant certificates and diplomas, to exercise provisional supervision over members, to state and publish information, to form a library, to take over the voluntary association known as the Pathological and Bacteriological Laboratory Assistants' Association, etc. Fourteen subscribers are to elect first members of Council.

**PLYMOUTH, ASTLEY & CO., LTD., MANCHESTER.**—Mr. William James Cook, M.P.S., has been appointed to the board of directors.

**PHENOMENE PHOTOGRAPHIC PRODUCTS, LTD.**—Petition for the winding-up of the company is to be heard at the Law Courts, Cardiff, at 10.30 a.m. on December 1.

## TRADE NOTES

**Change of Name.**—Formerly issued as Hydraloid Hydantal, Tabloid soluble phenylephrine is available as an anti-convulsant from Wellcome & Co. (The Wellcome Foundation, Ltd.), London.

**Cough-mixture Supplies.**—John Knox (Stoke-on-Trent), Ltd., Cannon Street, Stoke-on-Trent, offer moderate quantities of Formec cough mixture, a quality supplied to chemists only.

**Advertising for Blade Sharpeners.**—Advertising throughout the whole of Britain appearing in the principal national and local newspapers for the Multishave safety-razor blade sharpener. The campaign will increase in volume until the end of the year.

**Sole Distributors.**—It is announced that the Metropolitan Distributing Co., Ltd., 7 Park Lane, London, W.1, have been appointed sole distributors of Jix fluid extract of beef to pharmacists throughout the British Isles. The nationally-advertised product is available in 3-oz. bottles. Terms are available from the distributors.

**Guide to Specialities.**—A list of products still manufactured and/or distributed by Thos. Christy & Co., Ltd., Old Swan House, Castle Street, Farnham, Surrey, is given on another page in this issue. The list is subject to alterations, and the distributors do not guarantee delivery of any of the items listed, but it may be taken that any specialities not included are no longer available.

**Aid-Russia Ball.**—In furtherance of the Pharmaceutical Society's "Russia X-ray Fund," Lennard, Lee-Narvill & Co., sundriesmen, 140 Coltman Street, Hull, are organising a ball at the Beverley Road Baths, Hull, on December 14. The Royal Army Ordnance Corps broadcasting orchestra and a private dance orchestra have been engaged. The tickets are priced at 8s. 6d. Donations are invited from persons unable to attend.

**Restricting Supplies to Suitable Customers.**—A showcard has been prepared by H. W. Carter & Co., Ltd., The Old Refinery, Bristol, 2, supporting chemists who give effect to the request of the Ministry of Food that supplies of blackcurrant syrup shall be restricted to children, invalids and patients presenting physicians' prescriptions. Ribena, Messrs. Carter's own brand of blackcurrant syrup, is now obtainable in substantially increased quantities, and retailers who do not ordinarily buy direct should apply for supplies to their usual trade wholesaler.

## Business Changes

**PLYMOUTH CO-OPERATIVE SOCIETY, LTD.,** have acquired the goodwill of Rees, Chemists, Ltd., Peverell Corner, Peverell.

**MR. ERNEST D. ATTWOOLL, M.P.S.I.,** has been appointed manager of Fassett & Johnson (Eire), Ltd. Mr. Attwooll has been on the staff of Butler's Medical Hall for fourteen years.

## Proprietary Articles Trade Association

**Alterations to Protected List.**—*A. Wander, Ltd.* Owing to points-rationing regulations, the manufacturers have reduced the weight and prices of the 1s. 6d. size Ovaltine rusks as follows: 8 oz., 1s. 3d., 12s. doz.

**Deletions.**—*Deb Silkwear Protection, Ltd.* Deb liquid rinse for silk and rayon articles. *Leyland & Birmingham Rubber Co., Ltd.* Pharmal breast-relievers.

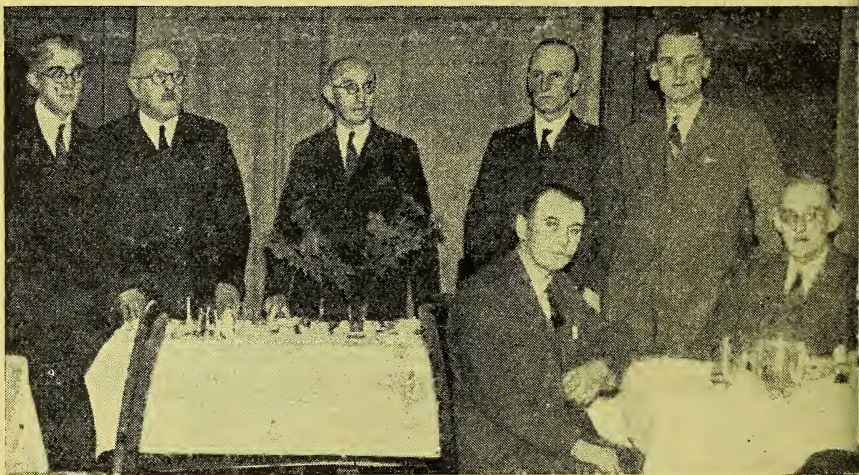
**Waste Paper!** For those about to—the answer is "Don't."

## ULSTER CHEMISTS' ASSOCIATION

THE annual general meeting of the Ulster Chemists' Association was held at 4 Waring Street, Belfast, on November 18, the president (Mr. P. R. W. Shinner) in the chair. It was the first annual meeting in the new headquarters.

THE SECRETARY (Mr. James McClenahan) reported apologies from Messrs. W. C. Tate, Belfast; E. Linton, Newry; J. L. Stirling, Ballymena; Arthur E. Johnston, Belfast; and T. A. Gibson, Belfast. MR. SHINNER reported that Mr. John McDowell was making progress towards recovery. A vote of sympathy to Messrs. R. A. E. Simmons and David Smiley was proposed by Mr. J. M. MCGREGOR, Belfast, and seconded by Mr. R. HALL, Bangor. The president extended the sympathy of the meeting to Grattan & Co., Ltd., Belfast, on the losses sustained by them during the year. Mr. H. G. Pring, who had passed away since their report, was a man universally liked and admired.

Northern Ireland since its inception; Messrs. S. Hogg, W. R. H. Orr, and E. J. Roberts, three of the oldest Belfast members of the Association. During the year the decision had been taken to rent permanent premises for the Association and to appoint a whole-time secretary and assistant; tenancy of the new premises at 4 Waring Street began on May 1, the cost of decorating, furnishing and equipping being met entirely out of capital. The president (Mr. P. R. W. Shinner) had donated an antique mortar and pestle and Mr. James Dundee two chairs. Membership remained at 459, which was 92 per cent of the entire practising pharmaceutical chemists and registered druggists of Northern Ireland. Adoption of the executive committee's report was proposed by J. A. ROBERTS, Belfast, seconded by S. H. FORREST, Bangor, and passed. The financial statement, read by Mr. W. J. RANKIN, showed a satisfactory balance.



ULSTER CHEMISTS' LUNCHEON.—Group at luncheon given by the Ulster Chemists' Association to representatives of provincial associations visiting Belfast for the annual meeting of the Association. Standing, Messrs. J. McKenna, Armagh; J. W. Gray, Armagh; P. R. W. Shinner (president); R. Morrow, Newtownards; J. McClenahan (secretary). Seated, Messrs. G. M. Shaw, Carrickfergus; and Richard Hall, Bangor.

### Report and Financial Statement

The report of the executive committee recalled the passing of five members of the older generation of chemists: Messrs. Samuel Gibson, J.P. (a former president of the Pharmaceutical Society of Northern Ireland); T. H. Harper (Grattan & Co., Ltd.) an examiner to the Pharmaceutical Society of

hand, and the report was adopted on motion of MR. RANKIN, seconded by MACAULEY and supported by MR. A. E. DAVIS. A resolution: That the annual subscription for the year be fixed at 35s. for members, and 17s. 6d. for branch shops registered druggists, was adopted on motion of MR. W. J. RANKIN, seconded



ROBERT MORROW, Newtownards, and unanimously. MR. JAMES DONAGHY presided and the executive committee on a splendid report and said he noticed a note of regret in the report regarding what the chemists had failed to do; he thought all members should do some propaganda work on behalf of the Association. In his opinion the subscription might have been raised to 10s., and with the surplus a social club might have been started for the benefit of country members. MR. DONAGHY also suggested that the executive committee should consider setting up a minimum wages scale for apprentices (first, second, third, and fourth years) and for assistants. MR. E. A. RICHEY seconded and MR. CHARLES ABERNETHY moved that a nominal sum of 5s. a year should be fixed as the subscription for associate members, and this was passed by a majority. MR. J. McKENNA, Armagh, suggested that a membership card should be issued. MR. ROBERT MORROW, Newtownards, congratulated the Association on its annual report, conveyed best wishes from the North Down Chemists' Association, and spoke of the benefits received by them through the work of the U.C.A. The outgoing members who were due to retire were re-elected: Messrs. A. T. Hardy, J. Hardy, A. E. Johnston, James McDowell, R. A. McEwan, W. J. Rankin, E. A. Richey, and W. C. Tate.

### Supplies and Prices

MR. S. DALE, Londonderry Chemists' Association, asked about supplies of ground-roil; he understood hairdressers were able to obtain supplies of the commodity. MR. McCLENAHAN, in reply, said sales of ground-roil was entirely confined to prescriptions, and the chemists could obtain extra supplies by writing to the Ministry of Agriculture explaining their position, if their present arrangements were insufficient to cover dispensing needs. MR. HALL, Larne, spoke about the prices for dispensing prescriptions, and urged that all prescriptions should be duly coded. MESSRS. E. A. RICHEY, S. H. FORREST and S. DALE also took part in this discussion. MR. G. M. SHAW, Bickfergus, asked about minimum prices for prescriptions, and was told by the president that a revised dispensing schedule would be included in the next price list. MR. F. A. FERGUSON brought greetings from Lurgan chemists, and suggested that the committee should consider setting up a reference library with trade journals and business literature for the benefit of members.

### Votes of Thanks

MR. H. F. MOORE (president, Pharmaceutical Society of Northern Ireland) received a cordial welcome from MR. SHINNER, who spoke of the kindness extended to the U.C.A. by the Pharmaceutical Society in placing its premises at the disposal of the U.C.A. It was his earnest hope that before their next annual meeting peace would be once more established in the world. MR. MOORE, replying, thought Mr. Shinner's address had been both educational and instructive. It reflected great credit on the committee working under his chairmanship. MR. MOORE proposed a vote of thanks to the president. This was seconded by MR. JOHN HALL, Larne. The executive committee received a vote of thanks for their work on the proposition of MR. N. A. J. ANDERSON, Portadown, seconded by MR. J. McKENNA, Armagh; the treasurer (MR. W. J. Rankin) was thanked for his services on the motion of MR. J. BUCHANAN, Londonderry, seconded by MR. D. F. STROOPS, Portadown; the auditors (Messrs. A. E. A. Davis and James Macauley) were thanked on the motion of MR. JAMES McDOWELL, Belfast, seconded by MR. H. P. CROSSIN, Belfast. MR. G. A. MALLINSON (secretary, National Pharmaceutical Union) also received the thanks of the Association, for his helpful advice during the year, on the motion of MR. JAMES DUNDEE, Belfast, seconded by MR. E. A. RICHEY, Belfast. A vote of thanks to the secretary (MR. JAMES McCLENAHAN) was proposed by MR. A. STEEDE, Belfast, and seconded by MR. JOSEPH WELLWOOD, Belfast.

Before the meeting, representatives of provincial associations were entertained to lunch by the officers of the U.C.A. (see illustration on opposite page.)

## COMING EVENTS

Notices for inclusion under this heading should be sent in time to reach the Editor in Bath not later than Wednesday morning of the week of insertion. Secretaries are advised to send copies of printed programmes of local activities so soon as they are completed.

### Wednesday, December 2

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Grand Hotel, Colmore Row, Birmingham, at 3 p.m. Professor W. N. Haworth, Sc.D. (Director of the Department of Chemistry, University of Birmingham) on "Vitamins—Especially Vitamin C."

### Sunday, December 6

PHARMACEUTICAL GROUP, SOCIALIST MEDICAL ASSOCIATION, Conway Hall, London, W.C.1, at 2.30 p.m. Meeting.

# PHARMACY IN POST-WAR SCHEMES

DEPUTISING for Mr. G. A. Mallinson (National Pharmaceutical Union) recently, Mr. A. H. Noble (assistant secretary, Chemists' Defence Association) addressed the Birmingham Pharmaceutical Association on "State Medical Service in Relation to Pharmacy and Post-war Developments." Mr. Noble said it was generally agreed that pre-war health services would not meet the desires of the people after the war, and it would be necessary to develop a comprehensive system that would provide for positive health and the prevention of disease, and make available all treatment services to everyone.

## Alternative Possibilities

The simplest form of development of the public health service would be the extension of the National Health Insurance. Defects in that which had become apparent were absence of provision for specialist and consultative service and absence of provision of medical benefit for dependants. N.H.I. might be extended in these directions and made to form an integral part of the hospital service, reorganisation of which had been announced to be part of the Cabinet's policy of post-war reconstruction. A second group of plans put forward was for the institution of a full State medical service. It seemed unlikely that the country was ready for such a service, but if it came into being there would be fundamental changes in the conditions under which pharmacy was carried on. It had been said that it would be possible to absorb into the State medical service the whole, or almost the whole, of the present practising pharmacists. That, of course, was open to question. The third group of plans put forward, and likely to be adopted to an increasing degree, stood intermediate between the mere extension of the N.H.I. and the full State medical service. They were the schemes propounded in the interim draft report of the Medical Planning Commission set up by the British Medical Association, and a very similar plan put forward by a subcommittee of the Liberal Party. The problem confronting pharmacists was "What should pharmacy be doing at the present time?" It should be trying to make a plan by which it could be integrated into whatever development there might be in the best way for pharmacy and the public.

When the meeting was thrown open for discussion MR. BUCHAN deplored that no

mention was made of pharmacists in the report of the Medical Planning Commission. —MR. NOBLE said the report referred only to a dispensing service.

MR. CREES doubted whether it did the pharmacist any good to be engaged in the sale of proprietary medicines.

MR. WALSH appealed to pharmacists to probe more fully into the various schemes outlined; he thought the average pharmacist neglected to give the subject the attention it deserved.

MR. W. MARTIN said the drift of political opinion after the war would play an important part in the type of service that would develop.

THE CHAIRMAN (Mr. H. Walsh), winding up the discussion, visualised a regional officer of health, a pharmacist, and a large batch of dispensers doing the work. He felt that a separation would occur between the commercial and professional parts of the craft which might be covered by the "minor" and "major" examinations respectively. A vote of thanks was proposed by MR. MARTIN and seconded by MR. WALSH.

## INSURANCE ACT DISPENSING

**Chester.**—Prescriptions dispensed by chemists in the Insurance Committee's area during 1941 totalled 70,956, a decrease of 6,110 from the previous year. The total cost was £3,716, of which £2,361 represented ingredient cost.

**Plymouth.**—Payments to chemists in the Insurance Committee's area amounted to £1,154 in July, £747 in August, and £763 in September. Prescriptions dealt with in 1941 totalled 4,038,756, or 16 per cent. less than in 1940 and the lowest since 1936. The reduction was not entirely due to transfer to the Services, as the prescriptions in 1940 were 4,075 per insured person and in 1941 3,575. The cost of pricing the prescriptions was 28s. 6d. per 1,000.

**Walsall.**—The secretary of the Insurance Committee stated at a recent meeting that no arrangements had been made for making up prescriptions for workers after 5 p.m. nor were any necessary owing to the generous public spirit of the medical men. Where medicine was urgently wanted the doctors were providing sufficient to enable patients to carry on until the chemists were available.



## PROBLEMS AFFECTING PHARMACY

At the first meeting of the session of the Glasgow and South-western, Scottish Branch of the Pharmaceutical Society, held in Glasgow recently, Mr. David Gemmell (president) in the chair, Dr. JOSEPH TAIT (resident secretary in Scotland, Pharmaceutical Society) presented the Kinninmont prize (a scholarship valued at ten guineas, tenable at the Royal Technical College, Glasgow) to Mr. Andrew Carey, Glasgow. Mr. H. P. ARTHUR stated that Mr. Carey was the only candidate, but his examination results had been so distinguished that the examiners felt bound to award the prize.

### Recent Problems Explained

DR. JOSEPH TAIT then gave an address on "Recent Problems Affecting Pharmacy." Dr. Tait said the final say in the call-up of persons in pharmacy lay with the Ministry of Labour. There was no real reservation so far as men were concerned, everything depending on age. It was understood that women pharmacists, dispensers and students would not be transferred to other occupations but certain Man-power Boards had been "sticky." For drug hands, the employer should get a form and send it to the local War Committee to secure a certificate supporting the application or otherwise. It was important to classify dispensers as such. Dr. Tait said the local Price Regulation Committee must consult the local Pharmaceutical War Committee before the transfer of a business could go through. If the owner of a pharmaceutical business were called up and decided that his shop would be carried on as a drug store only, it was essential that all poisons should be removed from the premises. There had been complaints about the necessity for making a statutory declaration each year for a methylated spirit licence. It was not lawful for an Excise officer to issue or renew a licence unless the declaration were made. Their register was always a year behind, and the appearance of a chemist's name on it was not enough. Dealing with examinations, Dr. Tait said that in Scotland a man completing his Chemist and Druggist Qualifying examination was then liable to be called up. In England he could qualify for Ph.C. without taking the Chemist and Druggist examination; by so doing he remained a student and continued to be reserved. Dr. Tait concluded by giving some details concerning the War Aid and

Benevolent Funds; the Glasgow average contribution to the latter was only 1s. 11d., and he appealed for greater support.

### Answers to Questions

Questions were asked regarding the position of pharmacists in the Home Guard by Messrs. SINCLAIR, DUNCAN, BROWN and SMITH.—DR. TAIT pointed out that pharmacists joined voluntarily, and if they found it impossible to do the requisite number of hours, he would assist them in putting their case before the appropriate authorities.

In reply to Mr. WALKER, DR. TAIT said that Scottish doctors knew there was no deficiency of tinctures, but English locums who came North did not know this, hence the greater prescribing of extracts.

MR. ARCHIBALD asked if chemists were eligible for extra coupons for protective clothing, and Mr. JOHN WEIR said the Federation had taken the matter up. Various speakers pointed out that chemists were excluded, but the secretary, Mr. ROBERT MCADAM, said he had obtained the coupons, having applied for them as a chemist dealing with chemicals.—DR. TAIT said the Board of Trade had excluded pharmacists, but coupons could be obtained by process workers in the wholesale drug trade, if engaged not less than twenty-two hours per week on such work.

MR. GRAHAM urged the Society to do something to defer the calling up of drug hands in wholesale businesses, DR. TAIT replying that this was a matter for the Wholesale Drug Trade Association.

In reply to Mr. HEUGHAN, DR. TAIT said they had no guarantee that a sufficient number of persons would be left in pharmacy to prevent it falling to a danger level.

Thereafter the secretary intimated that subscription sheets were available for donations to the fund for providing comforts for local pharmacists on service. A vote of thanks to Dr. Tait, proposed by Mr. A. OFFICER (vice-president), terminated the meeting.

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CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

## RECENT RESEARCH

**Modifiable Tablet.**—The composition of the ordinary tablet is incapable of being modified to suit the needs of a particular patient. Musher ("Drug and Cosmetic Industry," August, p. 173) proposes a tablet given, in the tableting process, a well or depression into which a quantity of powder or tablet-triturate, or a hypodermic tablet, can be inserted as desired, a gelatin cap then being pressed into position.

**Gelatinum Talc.**—A formula for a substitute for Unna's paste containing neither zinc oxide nor glycerin has been devised by the Royal Adelaide Hospital ("Australasian Journal of Pharmacy," July 30, p. 457). The claim is made for it that it not only replaces the official preparation but possesses certain advantages. It produces a bandage firmer and more comfortable, and which does not crumble. The bandage thus has a longer life, and in practice is replaced only every two or three weeks, instead of weekly. The cost, compared with Unna's paste, is approximately one-quarter. Further saving is effected as the bandage is dry and sets in fifteen minutes, thus obviating the use of flannel bandages. The formula is:—

Gelatin	..	..	..	..	5 per cent.
Alcohol	..	..	..	..	5 per cent.
Talc..	..	..	..	..	30 per cent.
Water	..	..	..	..	to 100 per cent.

Dissolve the gelatin in half the water. Add talc in four portions and the alcohol after the third portion. Stir. Make up with water to volume. The method used is to place a dressing of cod liver oil and soft paraffin over the ulcer and to apply a coat of the above to gauze bandage placed around the leg. Another layer of bandage is then applied, with another coat of the paste. The preparation must be well stirred with a wooden spoon before use, and the bandage must be firm and even.

**Treatment of Mange.**—In the "Veterinary Record," August 15, p. 330, Jennings reports that eighteen cases of sarcoptic mange in dogs, three cases of demodectic mange, one case of equine symbiotic mange and eight cases in cattle have been treated with a watery dilution of an emulsion of tetraethylthiuram monosulphide. With the exception of one canine case all responded remarkably in a relatively short time. Fewer dressings were applied as confidence was gained in the substance. Some of these cases were in an advanced eczematous state and the trials can be regarded as efficient

severe tests. It seems, therefore, that the value of this mixture as an anti-mange agent is high and it is superior to any other tried by the author. Some of the advantages of the preparation might be enumerated. (a) The preparation has no objectionable smell. (b) As it is a watery solution it dries quickly and does not leave the animal in a cold, clammy condition as do oily dressings. (c) The animal does not become in such a messy state, objectionable to have about the house, as is the case with household pets when other preparations are used. (d) It is non-toxic and does not appear to irritate the skin. (e) It gives a relatively rapid cure rate and appears to stimulate the growth of hair. (f) It appears that in the case of sarcoptic mange only one dressing is really necessary. Although the number of cases is not great the results are sufficiently clear-cut to warrant the opinion that this substance is an effective non-toxic anti-mange drug.

**Sterilisation of Sulphonamides.**—By a simple procedure, McCartney and other workers ("Lancet," October 17, p. 454) have been able to issue sterilised preparations of the three common sulphonamides (sulphanilamide, sulphapyridine and sulphathiazole) in a sterile usable container without any apparent physical or chemical change in the powders. Wide-mouth screw-capped containers of 1 oz. capacity, fitted with aluminium caps tightly screwed on, and red rubber washers, are sterilised in the autoclave at 15 lb. for 20 minutes. The sulphonamide powder is obtained from the manufacturers in clean screw-capped glass jars, and not in cardboard containers. The assistant who fills the bottles washes up as for a surgical dressing. A sheet of sterile kraft paper is placed on the bench, and, with a sterilised teaspoon and a 3-in. glass funnel cut off at the neck, the sulphonamide powder is placed in the previously sterilised universal containers. The powder is shaken down until the bottle is nearly full (approximately 10 gm.) and the cap is then tightly screwed on. When the batch is ready the bottles are placed in the autoclave and heated with the steam issuing freely for 20 minutes. The pressure is then raised to 10 lb. and allowed to act for 30–60 minutes. After removal from the autoclave, the bottles are immediately labelled, a different coloured ink being used on the label according to the contents. A perforated cap may be used as a sprinkler.



## PARLIAMENTARY NEWS

**Nutritional Anæmia.**—Dr. Summerskill asked the Minister of Health on November 19 whether any evidence of nutritional anæmia in women and children had been brought to his notice.

Mr. E. Brown: My attention has been called to an article in the medical Press which stated that evidence of nutritional anæmia had been found among certain groups of women and young children. I have therefore arranged for iron preparations to be available in all day and residential nurseries and in emergency maternity homes.

**London Shop Lighting.**—Mr. Brooke asked the Minister of Fuel and Power on November 19 whether he was aware of the brilliant lighting seen all day in many London shops.

Major Lloyd George: The General Direction (Standard of Lighting) which I made on September 19 under the Control of Fuel Order, 1942, prohibits the use in the sale-rooms of shops of more electricity for illumination than  $1\frac{1}{2}$  watts per square foot, and adds the overriding provision that no more electricity is to be used for this purpose than is reasonably necessary.

**West Indies Citrus Industry.**—Mr. Harvey asked the Under-Secretary of State for the Colonies on November 18 whether his attention had been called to the serious effect on lime growers in the West Indies of the decision not to permit the importation of unconcentrated lime juice into Great Britain after the close of the year; and whether any steps were being taken to establish any concentration process in the West Indian islands chiefly concerned.

Mr. Harold Macmillan: I am aware of the decision to discontinue the importation as from January 1, 1943, of unconcentrated citrus juices from the West Indies, on shipping grounds. One producer in Jamaica is capable of producing concentrated juice, but facilities do not, according to my information, exist for this purpose elsewhere in the West Indies. I am not aware that any producers, other than the one Jamaican concern which I have mentioned, are proposing to acquire concentrating plant, and indeed in the present shortage of equipment of all kinds this plant would be very hard to obtain. Proposals by the Government of Jamaica for the relief of the citrus industry, involving the spending of £60,000 . . . have been approved.

## PERSONALITIES

MR. HERBERT A. BERENS, a director of Biddle, Sawyer & Co., Ltd., Empire House, St. Martins-le-Grand, London, E.C.1, has returned to London after completing a business tour through America, South America and Australia.

MR. F. A. BATES, M.P.S., Nottingham, was on November 19 installed Master of the Temple Lodge No. 5,196, in the presence of six Past Grand officers, fifteen or sixteen present and Past Provincial Grand officers, and fifteen of his pharmaceutical brethren.

## DEATHS

**BREESE.**—Recently, Mr. John Soley Breese, Ph.C., 191 Wilmslow Road, Rusholme, Manchester, aged seventy. Mr. Breese was one of the best known pharmacists in Manchester, where he was for many years an active worker in the local Pharmaceutical Association, a member of its council for over twenty years, and filled the office of vice-president. Mr. Breese was a man of personal charm, of sincerity of character, and did much in his own district to enhance the prestige of pharmacy. He was a keen golfer and one of the earliest members, and past captain, of the Manchester and District Pharmaceutical Golfing Society. At the funeral service, held at St. James's Church, Birch-in-Rusholme, on November 17, warm tributes were paid to his memory by the Rev. Canon Horner and the Rev. J. W. Townsend. Among the pharmacists who attended were Mr. J. H. Franklin, Alderman R. G. Edwards, Major V. Cromack and Mr. T. Miller.

**GLEN.**—In Egypt, recently, while serving with the Black Watch, Mr. Francis Glen, M.P.S., formerly of 10 Kirkhill Gardens, Edinburgh. Mr. Glen qualified in 1937.

**HENDRY.**—On November 19, Mr. Alexander Wilson Hendry, M.P.S., Glasgow Road, Blantyre. Mr. Hendry passed the Minor examination of the Pharmaceutical Society in 1899.

**WATERS.**—At 11 Ryecroft Road, Lewisham, London, S.E.13, on November 16, Mr. C. Findon Waters, proprietor of The Curacho Co., aged eighty-nine. Mr. Waters was at business up to a few days before his death.

**WILKES.**—Recently, Mr. Ernest Wilkes, M.P.S., Lone Valley, Purbrook, Hants, aged thirty-one.



*John Bell* BRAND

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*The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.*

## National Health Balance Sheet

A SECTION of the Interim Report of "Medical Planning Research," published as a 4-page supplement to "The Lancet" of November 21, gives some interesting estimates of annual income and expenditure on national health and social security services during the financial year 1938-1939. Other tables give the estimated annual cost of these services in the future if they were operated on a scale as expounded in the Interim Report.

Before dealing with the various estimates of income and cost of health and social security services, past and proposed, it is desirable to say that the Interim Report is the result of labours of a "Medical Planning Research" composed of doctors "under forty-five." It should not be misconstrued as a minority report of, or a counterblast to, the B.M.A. Medical Planning Commission, of whose findings we have already published extracts (*C. & D.*, June 27, 1942, p. 708).

The Interim Report now under review is based on drafts received from more than two hundred doctors who, with the authors of the Report, remain anonymous, and it is submitted largely as a basis for discussion,

which it will no doubt attract. It favours practically a 100 per cent. nationalisation of the country's medical and health services and social security services, to be controlled and administered by a statutorily appointed public corporation with its governors appointed by directly elected ministers of the Crown.

The first table, entitled "Present annual cost of medical services (1938-1939)" gives the estimated total cost of medical services (excluding the environmental health services, such as housing, water supply and sewage) as £160,300,000, made up of the following items. *Voluntary Services:* (£ millions) Hospitals, £17. Convalescent homes, £2.2. Homes for chronic sick, £0.3. District and other nurses, £2. Other voluntary institutions and services, £1.8. (Total £23.3.) *Municipal Services:* General hospitals, £7.5. Fever hospitals, £4.2. Tuberculosis services, £4.8. Mental hospitals and institutions, £14.5. Venereal services, £.5. Maternity and child welfare services, £4. School medical services, £5. Poor law medical service, £8. Other services, £3.5. (Total £52.) *Doctors' Fees and Salaries:* N.H.I. payments, £8. Salaries (apart from those paid by hospitals), £2. Private fees, £38. (Total £48.) *Other Expenditures:* Patent medicines, £20. Dispensed medicines, £5. Dentists' fees and salaries, £10. Masseurs' fees and salaries, £2. (Total £37.)

The second and third tables give the estimated annual expenditure (in £ millions) in cash disbursements (1938-1939). For sickness, £43, and for unemployment and other relief services, £241. Thus it is estimated that the total cost in the financial year of 1938-39 of our health bill and social security services was £444.3. The Report does not indicate how these estimates were calculated.

## Cost of Proposals

Table 4 gives the estimated annual cost of the proposed all-embracing national medical services and that of the proposed national social security services as outlined in the Interim Report of "Medical Planning Research." To the estimated present cost of national medical services of £160,300,000 are added (in £ millions) the following items: Additional cost of nursing services, £40.

New buildings, £40. Total (less saving due to large-scale buying and improved administration £10), £230.3. The estimate of the annual cost of the proposed social security services totals £822,000,000, which, with the medical services' estimate of £230,300,000, gives a grand total of £1,052,300,000, against £444,300,000, the estimated cost during the year 1938-39.

The yield of the measures outlined to obtain revenue to meet the cost of the proposed post-war health and social security services is given as £316,600,000. The money, it is submitted, should be raised by contributions based on income. It is suggested that the weekly wage earner of from £1 10s. to £1 19s. 11d. should pay a weekly contribution of 2s. 6d. The scale moves up in steps of £1 to the wage earner of from £5 to £5 19s. 11d., who would pay a weekly contribution of 10s. Higher up the scale persons with salaries from £400 to £500 would pay quarterly contributions of £10 and those with incomes of £500 to £750, £12 10s. At the top of the scale are persons with salaries of £750 to £1,000, who would be required to pay quarterly contributions of £16 5s., and for those with salaries of £1,000 and upwards the levy each three months would be £25. It is estimated that about 19,000,000 persons would contribute to the general fund, and, as previously stated, the total revenue is calculated at £316,582,000, whereas the annual cost of the medical and social security services proposed in the Interim Report is estimated at £1,052,300,000. The deficiency of roughly £736,000,000 would, apparently, have to be met by direct contribution by the Exchequer.

Can such a financial proposal be seriously considered by the Treasury? Almost every industry and many public undertakings and services are at present engaged in drawing up plans for post-war reconstruction which, with a few exceptions, are directed towards some form of rationalisation or nationalisation, and in most instances the hope of success of these schemes is largely based on obtaining substantial contributions from the State. Quite apart from the pertinent questions of whether these post-war plans and proposals are not a trifle premature and whether it would not be better in the

national interest if every ounce of energy and thought were at present directed winning the war, it may reasonably be asked where is the money to come from to finance these grandiose schemes?

## Tuberculosis in War-time

A REPORT has lately been issued by the Committee on Tuberculosis in War-time appointed by the Medical Research Council in the autumn of 1941, at the request of the Ministry of Health. The report recalls that tuberculosis mortality was gradually declining up to the beginning of the war. In England and Wales deaths from tuberculosis totalled 36,632 in 1928 and 26,171 in 1938. Yet in 1938 there were still some 230,000 cases of active or recently active tuberculosis under supervision at the tuberculosis dispensaries of England, Wales and Scotland, while 65,000 new cases were notified in that year in the three countries. Deaths from tuberculosis in 1940 exceeded those in 1939 by 2,528, both non-respiratory and respiratory forms being responsible for the increase. There was only a moderate further addition (516) to the total deaths in 1941, the rise being mainly in the non-respiratory forms. In Scotland the total deaths from tuberculosis in 1940 were 47 more than in 1939, with, in 1941, a further but smaller addition of 171 deaths, the non-respiratory forms showing increasing prominence.

### The Figures Analysed

Comparing 1941 with the average of the immediate pre-war years 1938 and 1939 the increase is about 10 per cent. for respiratory tuberculosis in England and Wales and about 18 per cent. in Scotland; for non-respiratory tuberculosis the increases are about 21 per cent. and 28 per cent. respectively. In 1940 the increase in respiratory tuberculosis in England and Wales affected mainly children, older men and younger women. In 1941 the mortality of these adult age-groups did not materially worsen, though they continued to be unfavourable, but there was a substantial further relative increase in the deaths of children. The outstanding feature of non-respiratory tuberculosis has been the increased incidence of tuberculous meningitis. This increase has so far affected a



age-groups up to forty-five, while children up to ten years show a relative increase in mortality of 50 per cent. From the statistics it is apparent that the adverse trend in respiratory tuberculosis mortality began immediately after the outbreak of war in 1939 and increased in 1940, but in 1941 showed no significant further increase except in the female population in Scotland. On the other hand, the adverse trend of deaths from other forms of tuberculosis did not begin until 1940, and showed increasing deterioration throughout 1941. It may also be said that since the outbreak of war not only has there been an increase in the number of deaths but also the infection has assumed the more acute and fatal forms of the disease.

### Causes of Increase

The chief environmental changes peculiar to this war are (1) the evacuation of many tuberculosis hospitals and sanatoria in September 1939, to make room for expected air-raid casualties, with consequent return of their homes of numerous patients to an infective state; (2) black-out conditions, which, by diminishing ventilation, increase cross-infection and possibly lower general resistance; (3) overcrowding in homes, due to destruction of residential property by enemy action and the added effects of billeting; (4) evacuation of the population, which may have led to billeting in homes containing infective tuberculous persons, and, conversely, to the introduction of tuberculous persons into healthy homes; (5) evacuation of town populations to the country, with the result that many children previously supplied with pasteurised milk have had to change over to a raw milk supply. The first four factors would favour pulmonary infection with the human type, the fifth non-pulmonary infection with the bovine type.

### Recommendations

The Committee recommends as great an extension of pasteurisation of milk as possible. When transport and other difficulties make it impossible for pasteurised milk to be delivered to the home, the housewife should be instructed by suitable propaganda to boil it. Mass radiography is also recommended, with provision of organ-

isation for the care of those discovered to have tuberculous lesions. A full survey of the existing accommodation would be advantageous, including the number of beds usable. The sanatorium with its protected life is only a first chapter, at the conclusion of which the patient's treatment has step by step to be continued until he can resume his place as worker and citizen. National Health Insurance disablement benefit, following termination of sickness benefit at six months, is inadequate. Anxiety lest their families will be inadequately provided for is a strong factor in causing workers to delay in reporting sick, with disastrous consequences to themselves and a prolongation of the period during which their factory group may contain a possible source of infection. Another result of the wide difference between sickness allowance and the normal wage is premature return to work.

### Financial Aspects

The Committee considers, furthermore, that there are cogent reasons for ameliorating the present financial provision for tuberculous patients. The special character of the disease lies in the facts (1) that it affects the productive groups of the population; (2) that it usually extends beyond six months (the point at which the full National Health Insurance sickness benefit of 18s. falls to the disablement benefit of 10s. 6d.); (3) that it tends to reduce the standard of living of the patient and his family, yet requires a high standard of living for its successful treatment; and (4) that, whereas if the disease is allowed to progress it may render the patient infective to others, there is a good chance of full recovery and restoration to work if it is diagnosed early and the economic circumstances are favourable. The special provisions, which might be made under N.H.I. or in the form of a special tuberculosis fund, should be designed to ensure an adequate allowance for a period of, say, up to one year after notification, if this be required; the cases of persons still unfit for work at the end of this period could be reviewed by a suitable authority. The amount of benefit would have to vary according to the needs of the patient and his family.

# BIOLOGICAL ASSAYS AND THEIR FUTURE

THE first sessional meeting of the North British Branch of the Pharmaceutical Society took place in Edinburgh on November 20, Mr. W. F. Hay in the chair. The Society's house and laboratories were open for inspection from 6.30 p.m., and at seven o'clock Dr. John Henry Gaddum (Professor of Materia Medica and Pharmacology, University of Edinburgh) commenced an address on "The Future of Biological Assays." The following are among the main points of his address.

## Four Methods of Assay

There are four methods used in interpreting the results of biological assays. The first method applies to tests in which the effect of a drug can be observed repeatedly in the same tissue. Thus, if standard doses of histamine, allowed to act on the intestine of a dead guinea pig, are made to alternate with doses of an extract containing unknown quantities of histamine, it is easy to see whether the unknown extract causes more or less effect than the standard dose. In the second method the drug is administered slowly to an animal until some definite effect is produced. For example, a cat is anaesthetised and its blood-pressure recorded; an extract of digitalis is then infused into a large vein. This causes characteristic effects on the record of blood pressure, and eventually the heart stops in systole. Similar experiments are carried out with the standard extract, and from these results it is easy to calculate the activity of the unknown preparation of digitalis. In the third method the response of each animal is measured. This method has a wide application, particularly in the assay of vitamins and hormones. One group of animals receives a standard preparation, and another similar group receives the preparation being tested. After a suitable time the animals or certain organs of the animals are weighed and the results are calculated from the average weight. In the fourth method the effects are estimated in terms of the percentage of the animals in which some definite response is obtained. Curves can be constructed connecting the dose of the drug with the percentage of animals, and the result can then be calculated by exactly the same methods as those used when the average effect on each individual animal is measured.

## Scope of Biological Assays

Most of the hormones and vitamins and bacteriological and immunological products can only be estimated by means of biological assays. Certain substances that have originally been detected and measured biologically have eventually been isolated and identified, and the biological assay has been replaced by a chemical assay. This has led some persons to conclude that all biological assays will eventually be replaced by chemical assays, and that they are therefore only a passing phase which is already showing signs of having lost its usefulness. My object tonight is to convince you that this is a dangerous and misleading doctrine. Biological methods are likely to be used for many years to come for the assay of a number of substances for which there is no prospect of a chemical method at all. They are also used in the study of simpler substances which are obtained in quantities too small for chemical estimation.

## Standard Preparations

Experiments of this type require assays that are specific and quantitative, and their success has only been possible because of the gradual development of satisfactory methods during the last twenty years. A unit is defined as the amount of active principle which is necessary to produce a standard effect upon an animal. There is generally some attempt to standardise the method by restricting sex, age, weight and diet of the animals and the exact details of the technique. In spite of all these precautions there are always large variations between individual animals. In practice the variations between individual animals are much larger than most people expected, even when all reasonable precautions have been taken to ensure uniformity. It is this that led to the introduction of standard preparations in the form of actual samples of the substances to be standardised. These standards were adopted by the Permanent Commission on Biological Standardisation appointed by the League of Nations, and are recognised and accepted all over the world. It is essential that the standard preparation should owe its activity to the same active principle as the preparations which are tested in comparison with it. Some years ago it was proposed that pituitary (posterior lobe) extracts should



be assayed by measuring their effect on guinea pig's uterus in comparison with potassium chloride, or in comparison with histamine. It was shown, however, that, if the experiment was repeated, it did not always give the same result. When there are several active principles, all producing similar effects and liable to be present in different ratios, the logical basis for an assay is much less secure. It is, in fact, theoretically impossible to obtain a really satisfactory result in the assay of digitalis. The fact that no method of assay is really satisfactory has led to the introduction of a large number of methods. Most experts hold definite opinions about which is the best of these tests, but these opinions are not usually based on evidence. If there were clear proof that one of these tests gave results which really did invariably measure the clinical potency of digitalis, the question would be solved. Each worker believes that his own results are right and that anyone who disagrees with him must be wrong, whereas in actual fact there is every reason to believe that both of them are wrong, since they are trying to do something which is probably impossible. Biological assays serve a useful function in excluding grossly abnormal preparations of digitalis; great precision cannot be expected of them.

#### Parallel Quantitative Assays

When there is only one active principle in the standard preparation and in the unknown preparations, it is theoretically impossible that the results obtained by different methods should vary significantly from one another, provided that there are no other substances in either preparation which alter the activity. This theoretical consideration is the basis of sound biological assays. It has the advantage over some theories that it is found in practice to be true. If repeated assays by different methods are made with a given extract in comparison with the same standard pure substance, and if the results agree quantitatively with one another, there is good reason for believing that the active principle in the unknown extract has been correctly identified. This method of identifying substances in extracts is known as the method of parallel quantitative assays. It gives a qualitative conclusion, but is based on quantitative evidence. By means of the method it was possible to identify the substance liberated by cholinergic nerves as acetylcholine, in contradistinction to other choline esters, since it was

shown that other choline esters gave widely varying results when assayed in parallel tests against acetylcholine. Provided that each assay consists in a comparison with a standard preparation containing the same active principle as the unknown preparation, there is no reason why a biological assay should involve the same type of effect as that which is produced by the drug when it is used clinically. Insulin can be assayed by its effect in producing hypoglycæmic symptoms in mice, and the result is valid both when insulin will be used to produce hypoglycæmic effects in the therapy of mental disease, and when it will be used to maintain health in the diabetic. When an extract contains a mixture of active principles they can often all be assayed separately. In some cases biological tests are available which are very specific and are only affected by one of the substances present. When this is not the case, the extract can usually be fractionated so as to obtain the different substances in a pharmacologically pure state. This is a very different thing from chemical purity and may sometimes be achieved by very crude methods.

#### Accuracy of Biological Assays

It is generally realised that biological assays may be subject to large errors, but it is not generally realised that, if the comparison between the standard preparation and the preparation being tested is based on a properly designed experiment, the error is often no larger than that involved in chemical assays. The large size of the error in biological assays is almost entirely due to the variability of animals, and can be reduced indefinitely by increasing the scale of the experiments until a stage is reached at which the extra accuracy is not worth the extra cost. Biological assays have been widely used to control the work of chemists on the isolation of vitamins and hormones. In this type of work an active principle is followed through a series of chemical fractionations from the original crude extract to the final pure crystalline substance. In experiments of this type great accuracy is not essential, and it is sufficient if the chemist knows which fractions contain activity and which fractions contain so little activity that they can be discarded.

#### Applications in Research

I propose now to discuss some specific examples of the application of biological assays to problems in research. Work

carried out during the last few years in Madrid shows that the methods developed for the academic study of the physiology of acetylcholine can be applied to clinical problems. These Spanish workers collected urines from patients who suffered from migraine. The urines were adjusted to pH 3-4. The residue was shaken with alcohol and the alcoholic extract was evaporated to dryness, dissolved in Ringer's solution and tested for acetylcholine. They found that urine collected during an attack of migraine contained a substance which produced effects like those of acetylcholine, whereas urine collected before or after an attack contained no such substance. On the basis of these observations they suggest that migraine is due to a sudden over-production of acetylcholine. Biological assays have played their part in recent work on the causation of essential hypertension, which is a disease in which the blood pressure is high without obvious changes in the arteries. It was shown that

persistent high blood pressure could be produced in animals by constricting the blood flow to the kidneys, and it was shown that under these conditions blood from the renal veins contained abnormal quantities of a substance known as renin. On the basis of experiments it is suggested that essential hypertension is due to an excessive liberation of renin by the kidneys. It is suggested that it may be possible to treat hypertension either by suppression of the secretion of renin or by the diminution of the amount of hypertensinogen or of hypertensin. An enzyme has been described which destroys hypertensin; it may be possible to use this enzyme in the treatment of high blood pressure. Histamine is another substance whose physiology can be studied by biological assays, and it has been shown that histamine is liberated during anaphylactic shock and that various poisons including peptone, snake venoms, staphylococcus toxin, cause histamine to be also liberated into the circulation.

## "NATIONAL FORMULARY VII"

**A**FTER a shorter interval than usual, "The National Formulary, Seventh Edition," came into force in the United States on November 1 in succession to National Formulary VI, the official formulary of the American Pharmaceutical Association since June 1, 1936. The Council of the Association adopted in 1938 a scheme for more frequent revision of the N.F., a scheme in the execution of which the general committee has been assisted by nine sectional committees. The Association is again its own publisher, with the Mack Printing Co., Easton, Pennsylvania, as distributor.

### Significant Changes

The changes made in the book are significant. The most obvious are the expansion of the sections immediately following the formulary and the adoption of a new method of defining colours. The section comprising materials and preparations for diagnostic use (now renamed "Reagents and Preparations for Use in the Clinical Laboratory") has been extended from thirty-two to sixty-two pages; it is followed by a new "chapter" entitled "Ingredients of Reagents and Preparations for Use in the Clinical Laboratory" (44 pp.), and by an alphabetical list of "General Tests, Processes and Apparatus" (22 pp.). The value of these data to pathologists is self-evident. A colour system known as the

ISCC-NBS system is in use for the first time with an exposition among the "General Notices." Each colour designation consists of a primary term and one or two "modifiers." Specifications under the system are classed as definite, general, or indefinite. The nomenclature may be instanced by referring to the monograph on pulvis sennae compositus. This powder, taken over from U.S.P. XI, was there described as of a greenish-yellow to greenish-brown colour; it is characterised in N.F. VII as weak yellow or dusky yellow.

### Details of the Monographs

The monographs number 273 for drugs and chemicals (208 in 1936) and 459 for preparations (481 in 1936). Of the ninety-seven new monographs, seventy-one are derived from U.S.P. XI. Monographs not selected from N.F. VI number fifty-one, but forty of these appear in U.S.P. XII. Among the new articles and preparations are prepared neocalamine (red ferric oxide 3 per cent., yellow ferric oxide 4 per cent., with zinc oxide as the basis); a liniment and a lotion of neocalamine; a magma of bentonite; and two pectin pastes. The setting up of a laboratory by the Association in 1936 has much facilitated the work of revision. The high standard of its predecessors has been surpassed in N.F. VII by well-planned advances, some of which we have briefly indicated, in scientific precision.



# TRADE MARKS

from "The Trade Marks Journal," October 28)

"BIZZIE"; also "BIZZIE" under outline drawing of walking baby; for perfumery, soap, cleaning preparations and laundry preparations (3). By T. Hedley & Co., Ltd., Phoenix Buildings, Collingwood Street, Newcastle-on-Tyne. 619,307-08 (Associated).

"DELCREAM"; for hair cream (3). By Diamond Edge, Ltd., 14 Regent Hill, Brighton, I. B619,860.

"ULPHAMEZATHINE"; for pharmaceutical sulphur compounds for human use (5). By Imperial Chemical (Pharmaceuticals), Ltd., Wexham Road, Slough, Buckinghamshire. 618,991.

"NIPECTIN"; for pharmaceutical compounds of pectin (5). By Eli Lilly & Co., 740 South Alabama Street, Indianapolis, U.S.A. B619,117.

"STERNOCLEANSE"; for medicated preparations (5); also "STERNOCLEANSE" on label with words "Skin Screen against Dermatitis" ("Skin Screen" disclaimed); for medicated preparations for prevention and treatment of dermatitis (5). By Sterns, Ltd., 16 Finsbury Square, London, E.C.2. 619,372; 619,833-34-35 (All Associated).

"OBASAN"; for pharmaceutical preparations for treatment of hæmorrhoids and allied diseases (5). By Chas. Zimmermann & Co., Ltd., 9 and 10 St. Mary-at-Hill, London, E.C.3. 619,928.

"SHERLEY'S RHEUMATINE"; "SHERLEY'S RHEUMATINE" on circular label with directions; "SHERLEY'S LUBROL" on label with directions; for medicines for dogs and cats (5). "SHERLEY'S ENERGOL" on label with directions; for tonic food for dogs and cats (5). By A. F. Sherley & Co., Ltd., Boston Manor Road, Brentford, Middlesex. 620,022-23-25-26 (All Associated).

"UNEMUL"; for chemicals for use in medicine and pharmacy (5). By Universal Emulsifiers, Ltd., 58 Victoria Street, London, S.W.1. 620,197 (Associated).

"DICOUMIN" and "SYNPHRIN"; for medicinal and pharmaceutical chemicals (5). By British Schering, Ltd., 185-90 High Holborn, London, W.C.1. 620,251-52.

"MAID MARION"; for sanitary towels (5). By The Yorkshire Supply Co., 9 Glenside Road, Windhill, Shipley, Yorks. 620,338.

"IRLO"; for unmedicated toilet papers (16). By Fancy & Crepe Paper Mills, Ltd., Second Avenue, Team Valley Trading Estate, Gateshead, II. 619,773.

"DURAGUT"; for surgical sutures of catgut (10). By G. F. Merson, Ltd., 18 St. John's Hill, Edinburgh, 8. 619,735.

"SATINEXA"; for unmedicated toilet paper and toilet rolls (16). By Cardboards, Ltd., 119 Moorgate, London, E.C.2. 619,582.

"DEME"; for sealing caps made of thermo-setting or thermo-plastic mouldable materials, for bottles (20). By Deme Products

Co., Ltd., College Square, Albion Row, Byker, Newcastle-on-Tyne, 6. 620,155.

(From "The Trade Marks Journal," November 4)

"ALFLOC"; for industrial chemicals (1). By Alfloc, Ltd., Ingersoll House, Kingsway, London, W.C.2. 619,828 (Associated).

"KEENACRE"; for agricultural chemicals, fertilisers, etc., excluding weed killers (1). By Carr's Fertilisers, Ltd., 181 Higher Lane, Lymm, Cheshire. 620,256.

"GALA"; for face powder, lipstick, face cream, eye mascara and rouge (3). By Crystal Products Co., Ltd., Brunel Road, East Acton, London, W.3. B619,627.

"AMORESC"; for cosmetics (3). By Allied Laboratories, Ltd., 85-86 New Bond Street, London, W.1. 620,204.

Design incorporating profile of girl and word "NARVILL"; for perfumes, cosmetics, toilet preparations (not medicated), and sachets for waving the hair (3). By Lennard-Lee-Narvill & Co., 140 Coltman Street, Hull. 619,846 (Associated).

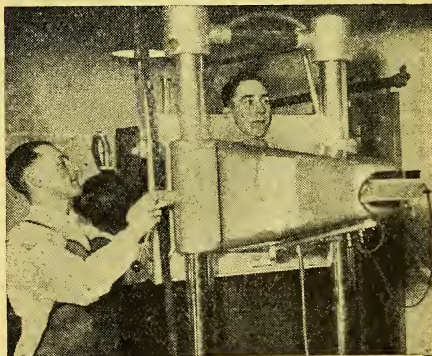
"ULTAJESS"; for toilet articles, not medicated (3). By Vine's, 222-24 Harrow Road, Paddington, London, W.2. 620,449.

"AERACIT"; for pharmaceutical substances (5). By Kemball, Bishop & Co., Ltd., Crown Chemical Works, Three Mill Lane, Bromley-by-Bow, E.3. 619,035.

"AVLODYL"; for all goods (5). By Imperial Chemical (Pharmaceuticals), Ltd., Wexham Road, Slough, Bucks. 619,413.

"TIPPO"; for insecticides (5). By B. C. Tipper & Son, Ltd., 43-45 Homer Street, Balsall Heath, Birmingham. 619,642.

"LILIANNE"; for sanitary towels (5). By Sashena, Ltd., Paragon Works, Neptune Street, Kingston-upon-Hull. 619,651 (Associated).



APPARATUS FOR MASS RADIOGRAPHY.—Miniature x-ray apparatus of type to be used in mass radiography decided on as part of Ministry of Health anti-tuberculosis policy (see p. 556).

## TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency

### 28 Essex Street, W.C.2, November 25

WHILE the volume of business being transacted in the London drug and chemical markets is not large, a fairly steady tone prevails. The continued improvement in the war situation has had the effect of stimulating buyers, but any movement towards better trade tends to be discounted by the lack of sellers of good bulk quantities. Demand for PHARMACEUTICAL CHEMICALS has again been of a routine character, with only one price change—an advance in POTASSIUM NITRATE—to record. Prices in this section have remained remarkably stable over a long period, a fact that reflects great credit on the industry as a whole. It may be added that the method of distribution of these products, by giving priority to essential services, has also been in the national interest.

### Crude Drugs

Most of the business in these commodities has again come from home consuming interests. Although price changes are rather more numerous this week, no significant movements have occurred. Some inquiries have been received for grades of AGAR lower than Kobe No. 1, presumably with the idea that they would be suitable for manufacturing purposes, but such qualities are not available. No change can be recorded in the supply position or price of ANTIMONY. BALSAMS are unchanged at the prices quoted last week. The ordinary grade of BENZOIN tends to be a shade dearer on spot. Business in natural CAMPHOR has been slow, and previous values are repeated. CARDAMOMS are considerably firmer at origin and as a result spot prices have moved up. CHILLIES is steady at the lower values quoted last week. Quiet conditions continue for GUM ACACIA, and prices are without change. Demand for IPECACUANHA continues, and spot prices are inclined to be higher. Some inquiry is noted for Mexican JALAP, but offers are apparently not being made. A fair spot business is reported in Chinese MENTHOL. Most varieties of SEEDS are quoted at lower prices, DILL, which is dearer, being an exception. As noted last week, MUSTARD SEED is now controlled under the Mustard Seed (Control and Maximum Prices) Order, 1942 (S. R. & O.

1942, No. 2350). Fair supplies of SENNA are available, but business is not important. SPICES have remained quiet throughout the week, and quotations show no change. TRAGACANTH is firm, with slightly dearer quotations for some medium grades. TURMERIC is quoted at lower levels as a result of continued lack of interest in the product.

### Essential Oils

Nothing of outstanding interest has occurred in these markets during the week. Prices are practically without change and business has remained quiet. Supplies of ANISE (STAR) remain difficult to find, but dealers' quotations are about unchanged. Some inquiry is noted for CASSIA, a few tins of which appear to be available. Spot supplies of EUCALYPTUS remain scarce, but the price shows no alteration. Chinese PEPPERMINT is again dearer, with spot supplies difficult to find. No changes have been notified in the controlled prices of fixed oils.

### Exchange Rates on London

The principal Bank of England fixed rates are: New York, 4.03 dollars; Montreal, 4.45 dollars; Lisbon, 100 escudos; Dutch West Indies, 7.60 florins; Stockholm, 16.90 kroner; Buenos Aires, 17.02 paper pesos; Rio de Janeiro, 83.65 milreis. Free market rates include Madrid, 40.50 pesetas; Chinese National dollar, 33½ d.; Belgian Congo, 176½ francs.

### Pharmaceutical Chemicals

ACETANILIDE.—B.P.C. crystals and powder are available at 2s. 5d. and 2s. 6d. per lb., respectively.

ALLOBARBITONE.—Makers' price steady at around 60s. per lb.

AMPHETAMINE.—Obtainable from makers at about 160s. per lb.

ASPIRIN.—Details of makers' prices were given last week (p. 537).

ATROPINE.—The following are makers' prices per oz.: ALKALOID, B.P., 35s.; 4 oz., 34s. 6d.; 25 oz., 34s. SULPHATE, B.P., 28s.; 4 oz., 27s. 6d.; 25 oz., 27s.; METHYL BROMIDE and METHYL NITRATE, 65s.

BENZOIC ACID.—Supplies are available for essential pharmaceutical and medicinal purposes. Makers' prices are from 2s. 6d. to 3s. per lb., according to quantity.



**BORAX (B.P.).**—Makers' prices per ton are as follows: Granulated, £39 10s.; crystal, 40 10s.; powder, £41. Packed in one-cwt. bags, delivered carriage paid Great Britain, in net-ton lots and upwards.

**BROMIDES.**—Makers' prices for **POTASSIUM** are steady at the following figures:—

Quantity	In parcels of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
From 1 lb. . .	3 11	—	—	—	—
From 4 lb. . .	3 10	3 8½	—	—	—
From 7 lb. . .	3 9	3 7½	3 6½	—	—
From 14 lb. . .	3 8	3 6½	3 5½	3 5½	—
From 28 lb. . .	3 7	3 5½	3 4½	3 4½	3 4
1 cwt. . .	3 0½	2 10½	2 10½	2 10	2 9½
5 cwt. . .	2 11½	2 9½	2 9½	2 9	2 8½

**SODIUM**, 1d. per lb. extra; **AMMONIUM**, 3d. per lb. extra; packing extra but returnable. Net. Carriage paid in United Kingdom on minimum one-cwt. lots. Contracts over six months: each delivery against contract to be charged at schedule rates current on day of dispatch. War-emergency clause and usual re-sale terms apply.

**CITRATES.**—Makers' prices for **POTASSIUM**, B.P., in quantities of 28 lb. to 1 cwt., are as follows (containers in brackets): 3s. 2d. (1-lb.); 3s. 0½d. (4-lb.); 2s. 11½d. (7-lb.); 2s. 11½d. (14-lb.); 2s. 11d. (28-lb.); Prices of **SODIUM**, B.P., are at one penny below, and **IRON AND AMMONIUM (SCALES)**, B.P., at threepence per lb. above these prices. Packages are charged extra.

**CODEINE.**—Makers' prices for 4-oz. quantities are as follows: **ALKALOID**, 38s. 3d. per oz.; **PHOSPHATE**, 31s. 3d. per oz.

**GALLIC ACID.**—About 7s. to 7s. 3d. per lb. would be the price of any available supplies.

**GLYCERIN.**—Small quantities are priced as follows: 1-cwt. drum, 86s. per cwt.; 56-lb. tin, 94s.; 14-lb. tin, 100s. per cwt. Subject to discount of 2½ per cent., twenty-eight days.

**METHYL SALICYLATE.**—Makers' prices are without change: Five cwt., 1s. 11d. per lb.; one cwt., 1s. 11½d.; smaller lots, in bottles, 2s. 1½d. per lb.

**PHOTOGRAPHIC CHEMICALS.**—Home makers have altered their prices for **PYROGALLIC ACID**, and the new prices came into force on November 23:—Crystals, 1 cwt., 14s. 6d.; 56 lb., 15s.; 28 lb., 15s. 6d., all net; 14 lb., 16s. 6d.; 7 lb., 17s. 6d.; under 7 lb., 18s. 6d.; all less 2½ per cent. monthly account. Small quantities: 1 lb., 19s.; 8 oz., 10s. 6d.; 4 oz., 6s.; 1 oz., 2s. 2d. Resublimed: 28 lb., 17s. 9d. net; 14 lb., 18s. 9d.; 7 lb., 19s. 9d., under 7 lb., 20s. 9d., all 2½ per cent. monthly account. Small quantities: 1 lb., 21s. 3d.; 8 oz., 11s. 8d.; 4 oz., 6s. 6d.; 1 oz., 2s. 6d.

**PHENOLPHTHALEIN.**—Steady at the recent advance: Less than 7 lb., 4s. 6d. per lb.; 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; 1 cwt., 4s. 2d. Prices net.

**POTASSIUM NITRATE.**—Prices have been advanced: B.P. quality, powder, 62s. 6d. per cwt., in cwt. lots; commercial quality, 55s. per

cwt. Lots of less than one cwt. are at 4s. per cwt. above these prices.

**POTASSIUM PERMANGANATE.**—Makers' price for 1-cwt. quantities of B.P. quality remains at 1s. 10d. per lb.; 3-cwt. quantities are at one half-penny per lb. less.

**SANTONIN.**—Home-trade prices are unchanged: 15 kilos and over, £46 10s.; not less than 10 kilos, £47 5s.; not less than 5 kilos, £48 5s.; less than 5 kilos, £50 per kilo, delivered free in the U.K.; 1-kilo packages free.

**TANNIC ACID.**—Supplies are restricted. Price would be in the region of 7s. 6d. per lb.

**TERPINEOL.**—May be had for medicinal use at about 3s. 6d. to 4s. per lb., according to quantity.

**VANILLIN.**—Ex clove oil or guaiacol, five cwt., 22s. 6d. per lb.; one cwt., 22s. 9d.; 56 lb., 23s.; less than 56 lb., 23s. 3d. Carriage paid in the United Kingdom.

## Crude Drugs

**AGAR.**—Small routine business reported in Kobe No. 1 for bacteriological use.

**ALOES.**—Curaçao remains in good inquiry, and a price of 450s. per cwt., c.i.f., is mentioned. Cape, spot, 65s. to 67s. 6d. per cwt., according to holder; forward prices seem to be about 45s. to 47s. 6d. per cwt., f.o.b., but stocks at origin appear to be small.

**ANTIMONY.**—No change has taken place in the supply and price positions. English minimum 99 per cent. regulus, £120 per ton, delivered; 70 per cent. crude, for the home trade, £100 per ton, delivered.

**BALSAMS.**—Small lots of softish *Tolu* are available on spot at 9s. 9d. per lb.; *Canada* remains in meagre supply at 8s. 9d. per lb.; *Peru* is unchanged at 8s. 3d. per lb.; *Copaiba*, B.P., is not available.

**BELLADONNA.**—Indian root testing 0.5 per cent. alkaloids remains at 475s. per cwt. on spot.

**BENZOIN.**—Steady routine business continues, but there appears to be no ordinary grade available on spot under £17 to £25 per cwt., according to holder and quality. Free almondy, spot, unchanged at £33 to £35 per cwt. Supplies are becoming depleted.

**BISMUTH.**—High-grade metal is steady on spot at 6s. 3d. per lb. for minimum 5-cwt. lots.

**BUCHU.**—Spot price of fair green rounds remains steady at 6s. 3d. per lb., but stocks are not plentiful. A few bales of ovals may be available at 5s. 9d. per lb.

**CALUMBA ROOT.**—Small supplies are offered on spot at 210s. per cwt.

**CAMPHOR.**—Business in the natural grades has again been quiet, and previous values are repeated: Chinese, B.P., spot, 11s. 6d. per lb.; crude (92 per cent.), 10s.; Japanese slabs, 12s. Supplies of English synthetic, B.P., are understood to be available to approved buyers at 7s. 6d. per lb.

**CARDAMOMS.**—Considerably firmer at origin. Aleppy green, spot, 5s. 6d. per lb.; shipment, 5s. 3d. per lb., c.i.f. Aleppy seed, spot, 6s.; shipment, 5s. 9d., c.i.f. Split seed, spot, 4s. 9d. per lb., according to seller.

**CHILLIES.**—Zanzibar and Mombasa, spot, 125s. per cwt.; Sierra Leone, 120s., both sellers.

**CLOVES.**—Spot value of Zanzibar remains at 1s. 6d. per lb. Madagascar is unquoted.

**DIGITALIS LEAVES.**—No change has occurred in the spot price of good-testing Portuguese at 125s. per cwt. Some Indian off-colour are offered on spot at 120s. per cwt.

**DRAGON'S BLOOD.**—Dull Zanzibar drop is quoted at £21 per cwt. on spot; seedy lump, £30. Spot stocks of re-boiled are exhausted.

**ERGOT.**—In poor demand. Current prices are as follows: Old-crop, spot, 5s. 6d. per lb.; new-crop, spot, 5s. 9d. per lb.; shipment, Portuguese, 5s. 3d. per lb., c.i.f.

**GALANGAL.**—Spot supplies would be worth 90s. to 95s. per cwt., according to quantity.

**GINGER.**—An allocation has now been made. No prices will be imposed. The Ministry of Food has recommended first-hand prices to grinders after consultation with them. The Ministry looks to the trade to maintain reasonable prices and will investigate any complaints that may be made.

**GUM ACACIA.**—Quiet conditions continue. Kordofan cleaned sorts, spot, unchanged at 95s. per cwt.; afloat, 90s., landed terms; shipment, 65s. per cwt., c.i.f. Some bleached is still available to consuming manufacturers at 145s. per cwt., ex warehouse London.

**HENBANE.**—Indian, spot, just under B.P., 3s. 3d. per lb.; afloat, f.a.q., 275s. per cwt., c.i.f.

**HONEY.**—Current prices for first-hand and wholesale transactions were given in the *C. & D.*, May 9, p. 527.

**IPECACUANHA.**—Demand has continued steady throughout the week. It is doubtful if any further supplies of Matto Grosso would be available on spot at 18s. 6d. per lb., 19s. now being mentioned. Offers from origin cannot be obtained, it is understood, but in any case import licences are not being granted. Minas, spot, B.P. grade, 14s. per lb.; slightly under B.P., 13s. 6d. to 13s. 9d. per lb. Current prices for EXT. IPECAC. LIQ., in winchester quarts, are as follows: B.P., 1932, under three, 26s. per lb.; three and under six, 25s. 6d.; six and under twelve, 25s.; twelve and over, 24s. 6d. per lb. B.P., 1914, under three, 24s. per lb.; three and under six, 23s. 6d.; six and under twelve, 23s.; twelve and over, 22s. 6d. per lb., all prices net.

**JABORANDI.**—Spot supplies are offered at 60s. per cwt., ex store.

**JALAP.**—Brazilian, 13 per cent., is offered on spot at 95s. per cwt.; 16 per cent. would be worth 105s.; and 19·3 per cent., 130s. per cwt., ex warehouse Liverpool. Some inquiry is reported for Vera Cruz, but offers are apparently not forthcoming.

**KAMALA.**—Six per cent. on spot continues to be offered at 2s. to 2s. 3d. per lb., according to holder.

**LIQUORICE ROOT.**—East Indian, spot, 70s. to 75s. per cwt., according to seller; South African 75s. per cwt.

**MENTHOL.**—In good demand. Fair business is reported done in Chinese on spot at 72s. 6d. and upwards per lb., but, except for a few odd cases, further sales could hardly be made at under 75s. Japanese, if available on spot 75s. per lb.

**MERCURY.**—Full particulars of current official prices, which range from £68 10s. to £69 15s. per bottle for quantities over 7 lb., were given in the *C. & D.*, August 1, p. 131.

**MUSTARD SEED.**—The following table of maximum prices per cwt., net, on a sale of mustard seed to a licensed manufacturer (other than mustard seed intended for sowing or resale for sowing) appears in the Mustard Seed (Control and Maximum Prices) Order, 1942 (S. R. & O. 1942, No. 2350). For particulars of the Order see *C. & D.*, November 21, pp 536-37:—

Sale	White (or yellow), or any mixture of white (or yellow) with brown (or black)	Brown (or black)
On a sale by the grower	70s.	70s. for seed harvested before January 1, 1943. 90s. for seed harvested on or after January 1, 1943
On a sale by any person other than the grower	73s. 6d.	73s. 6d. for seed harvested before January 1, 1943 93s. 6d. for seed harvested on or after January 1, 1943.

**MYRRH.**—Aden sorts on spot would be fully £18 per cwt. Demand has remained fairly steady, but supplies are not plentiful.

**NUX VOMICA.**—A few orders are occasionally received, but business is not important. Cochinchina washed and garbled, spot, 42s. 6d. to 45s. per cwt., according to seller.

**ORANGE PEEL.**—For any remaining small spot supplies of thin-cut or quarters, price would be 3s. 3d. per lb.

**PAPAIN.**—Spot, nominal at 16s. per lb.

**PEPPERS.**—Maximum official price of whole white Muntok, not picked over or cleaned, is 8d. per lb. in bond; whole black Lampung, of similar grade, 5d. per lb., in bond.

**PIMENTO.**—Spot price remains at 2s. 7d. per lb., sellers; shipment prices are not quoted.

**PODOPHYLLUM.**—*Emodi* (15 per cent.) is offered on spot at 82s. 6d. per cwt.



**QUILLAIA BARK.**—Natural bark, afloat, is noted at 80s. per cwt, c.i.f.; crushed or cut, not, unchanged at 415s. per cwt.

**RHUBARB.**—Spot price of next parcels of good-quality rough-round would be 7s. 9d. per lb.; slightly wormy material would be worth from 7s. 3d. to 7s. 6d. Odd cases of Shensi may be had at 9s. 6d. to 10s. per lb.

**SAPONIN.**—Spot, 7s. 6d. per lb., ex store Liverpool; shipment, 6s. 6d. per lb., c.i.f.

**SEEDS.**—Some fluctuation in prices has occurred during the week and current values are as below. For schedule of MUSTARD prices, see under MUSTARD SEED. **ANISEED.**—No supplies.

**ANARY.**—None available. **CARAWAY.**—No supplies. **CORIANDER.**—Indian, 150s. per cwt; others; English, quoted at 220s. **CUMIN.**—Malta, 60s., duty free; Indian, 150s. **DILL.**—Spot, noted at 190s. **FENNEL.**—Indian, 110s., value. **ENUGREEK.**—A few bags at 130s. per cwt.

**SENEGA.**—Spot value of the few remaining sales would be fully 8s. per lb.

**SENNA.**—Not a lot of business has been passing. Good hand-picked Tinnevely pods are being bought at from 11d. to 1s. 2d. per lb.; ordinary grade would be 10d. to 11d.; and a.q., 6d. to 7½d. Hand-picked Alexandrian pods, from 3s. 6d. to 6s. per lb., according to quality. Leaves are priced as follows: Leaves: Tinnevely No. 1, 9d. to 10d. per lb.; No. 2, 1d. to 7½d.; No. 3, 5½d. to 6d.; Alexandrian, broken, 1s. 3d. to 1s. 4d. per lb.

**SHELLAC.**—Inactive, with no change in values. Spot, standard TN orange, 205s. per cwt., value; pure button, unquoted; fine orange, 240s. to 205s. per cwt., quoted.

**SLIPPERY ELM BARK.**—Price to users of Leasehold material is 1s. 6d. per lb., ex store. Most of it is understood to have been distributed.

**SQUILL.**—Spot quotations for Indian remain at 75s. per cwt., and those for Portuguese at 85s.

**STRAMONIUM LEAVES.**—Small supplies of Indian leaves may be had on spot at 105s. per cwt.

**STROPHANTHUS.**—Business is small and prices are unchanged. Kombé seed, 100 per cent., is 10s. 9d. per lb.; 80 per cent. seed less.

**TRAGACANTH.**—Firm conditions obtain, with few medium grades a shade dearer. Current quotations are as follows: No. 1, white, £120; No. 2, white, £103; No. 3, white, £94; No. 4, white, £75; pale leaf, £70; amber leaf, £60; red-and-brown leaf, £38; red leaf, from £32; woolly and hoggy, from £17, ex store.

**TURMERIC.**—Owing to continued lack of interest, prices are now quoted at lower levels. Good-quality Madras, spot, 62s. 6d. per cwt.; ordinary, spot, 60s.

**VALERIAN ROOT.**—Indian, spot, 110s. per cwt., ex store. Supplies are in small compass.

**WAXES.**—Quiet and unchanged. **BEES'.**—Supplies obtainable, but only by application through members of the Association of Merchant Distributors of Beeswax. **CARNAUBA.**—Fatty grey, 480s. per cwt.; chalky grey, 465s.; primeira, 560s.

## Essential and Expressed Oils

**ANISE (STAR).**—Demand, for genuine Red Ship continues, but supplies are difficult to find. Dealers' price remains in the region of 54s. to 55s. per lb.

**BAY.**—Small quantities may be had on spot at between 12s. and 13s. per lb.

**BERGAMOT.**—Business in any remaining supplies of genuine oil would be negotiated on the basis of 100s. per lb. Artificial substitutes are available from British manufacturers at lower prices.

**BOIS DE ROSE.**—Spot price would be in the neighbourhood of 42s. per lb.

**CAJUPUT.**—Price remains at from 15s. to 16s. per lb., according to quantity.

**CAMPHOR (WHITE).**—Available spot supplies seem to be confined to an odd drum or two at about 600s. per cwt.

**CANANGA.**—Supplies are restricted, but spot price remains in the region of 60s. to 70s. per lb., according to quantity.

**CASSIA.**—Some inquiry has been received. For any remaining spot supplies the price would be in the region of 50s. per lb.

**CEDARWOOD.**—Nominal on spot at 6s. 6d. per lb.

**CINNAMON LEAF.**—Moderate supplies are offered on spot at about 15s. to 15s. 6d. per lb.

**CLOVE.**—English distillers' prices are without change at about 14s. per lb.

**COTTONSEED.**—No change has occurred in the controlled price of £49 per ton, naked ex works.

**EUCALYPTUS.**—Scarce. Spot, 70 to 75 per cent., would fetch around 5s. 6d. per lb. on spot.

**GERANIUM.**—About 80s. per lb. would be the basic price of any available supplies, but the precise figure would have to be negotiated.

**GINGERGRASS.**—Spot supplies may be had at approximately 25s. per lb.

**GROUNDNUT.**—Official price is unchanged at from £48 to £54 per ton, naked ex works, according to grade.

**PALMAROSA.**—Spot supplies would be worth around 32s. 6d. per lb.

**PEPPERMINT.**—Demand has again been good, and a few odd cases of Chinese are reported to have changed hands at 91s. per lb. It is doubtful, however, if any further supplies could be had at under 92s. 6d.

**PETITGRAIN.**—Spot, if available, would be worth from 22s. 6d. to 24s. per lb.

**ROSEMARY.**—May be had on spot at about 16s. per lb.

**SASSAFRAS.**—Spot supplies are obtainable at from 18s. to 19s. per lb., according to quantity.

**SPIKE.**—About 25s. per lb. would represent the present spot value.

**THYME.**—High-quality oil is unchanged on spot at 25s. per lb., but other grades would be cheaper.

## CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

### Recognising the Unregistered

SIR,—I quite agree with "Don R" (*C. & D.*, November 21, p. 540) that the time is opportune for the recognition of the unqualified. No doubt he hopes if this ever materialised a higher rate of remuneration would come with it. It is very regrettable that men who have proved themselves so capable and experienced cannot avail themselves of higher positions officially.

Yours faithfully,  
MAG. SULPH.

SIR,—Your publication of the letters by "Unqualified" and "Don R" is, I am sure, greatly appreciated by those of us who from one circumstance or another find ourselves skilled, trained and efficient, and capable of completing the alphabet from A to Z in any pharmacy, but with little hope of now facing up to the academic curriculum now required for registration. There must be some who, like myself, were not long out of our apprenticeship when we were called upon to serve in the ranks during the Great War, and who, on demobilisation, were forced by economic conditions to look for a job, whereas, but for the war we should have been able to complete our studies and qualify. Pharmacy would not be the poorer for granting recognition to those of us who have served the craft efficiently for, say, twenty years. I commenced my apprenticeship in 1908, and since my service in the last war have been continuously engaged in pharmacy—in two situations only: (1) five years, and (2) my present one eighteen years—and yet I must sign myself—

Yours faithfully,  
No STATUS.

SIR,—Seemingly "Don R" (*C. & D.*, November 21, p. 540) is a well-intentioned individual to sponsor the claims of the elderly unqualified. Speaking generally, these persons have had ample opportunity, granted the determination, to have found their names on the Register of Chemists and Druggists in their younger days. The fault, certainly in most cases, has been their own. So why the grouse on their part or the sympathy extended by kind-hearted souls? The gist of "Unqualified's" contribution (*C. & D.*, October 24, p. 436) reminds me of the over-enthusiasm of a

chemist, when interviewing the parent of a likely apprentice. He stated that it would take no more than six weeks for the lad to learn Latin (when that subject was compulsory) sufficiently to pass the preliminary examination before registration as a student. However, the father consulted his son's headmaster, with the result that the boy did not enter pharmacy. So with the absurd idea that young qualified men can be replaced with persons of only a few months' association with pharmacy. War is undoubtedly responsible for a lot, but do not let any calling forgo the standards necessary to command the confidence and respect of everybody.

Yours faithfully,  
FACTS.

## MISCELLANEOUS INQUIRIES

**Hair Cream.**—*A. O. W.*—A thick cream containing colza oil could be made as follows: Liq. calcis and ol. colzæ, equal parts, perfumed with ol. rosæ geran.

**Liq. Cocci.**—*J. H. S.*—The formula you are using is apparently identical with that of the American National Formulary, V., except that you use sugar in place of glycerin and it is to the sugar that we attribute the fermentation trouble. Most recipes for liq. cocci contain either glycerin or alcohol.

**Quillaia Bark.**—*R. L.*—In the retail drug trade quillaia bark would be regarded as a drug. It is included in the British Pharmacopœia. The bark contains two toxic glycosides: quillaic acid and quillaia-sapotoxin. The chief industrial use of the bark is as a substitute for soap in washing silk and other delicate textiles, and in making frothing solutions.

**Ammoniated Quinine.**—*M. M.*—This can be supplied to a medical practitioner, and quinine preparations ordered by a doctor can be dispensed. It is, however, the duty of the doctor to comply with the Government's intentions of conserving such stocks of quinine and quinine products for those purposes for which there is no alternative drug available. The Quinine Control Order was published in the *C. & D.*, August 22, p. 203. We assume that you are not a holder of quinine or cinchona products which, calculated in terms of quinine, total as much as 25 oz. If you are, you must notify the Director of Medical Supplies, Ministry of Supply, Portland House, Tothill Street, London, S.W.1.



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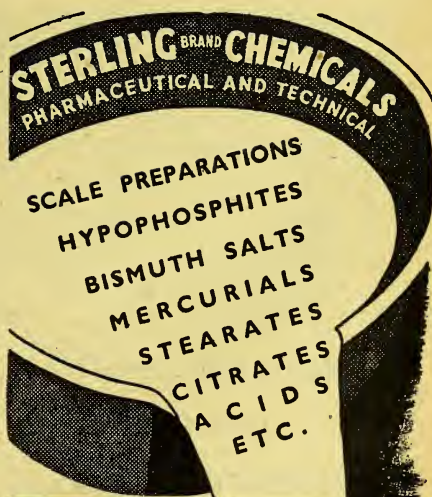
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'Grams: WYFIELD, LONDON

**Roura & Forgas, Ltd.****QUICKSILVER**

14 Seething Lane,  
Gt. Tower St., LONDON, E.C.3

Telephone: Royal 3080, 4837, 2315

Telegrams: Colleague, Fen, London



**ASTRIN BROS., LTD.**

STAFFORD HOUSE  
KING WILLIAM STREET  
LONDON, E.C.4

Tel.: Man. 4660

**MEDICINAL HERBS**

**DRUGS**

**ESSENTIAL OILS**

**SPICES**

**TRAGACANTH**

**SPECIALISTS IN B.P. POWDER**

Also Technical and Industrial qualities. All Grades of Whole Flakes as imported. Samples and prices on request.

**FREUDENTHEIL, SMITH & CO.,** 16 Philpot Lane,  
London, E.C.3. Tel. Address: 'Freudenruf' Tel.:  
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**YEAST FOR ANAEMIA**

**MIDGLEY & PARKINSON, LTD.**  
WARREN WORKS, PUDSEY, LEEDS

**GUM TRAGACANTH**

**GUM KARAYA**

WHOLE AND POWDERED

**M. HAMBURGER & SONS**  
DIRECT IMPORTERS

The Hawthorns, Leatherhead Road  
**GT. BOOKHAM, SURREY**

Phone: Bookham 2746/8 'Hornacron, Bookham'



# B R O M I D E S

(Ammonium Potassium and Sodium B.P.)

*now produced in PALESTINE by  
PALESTINE POTASH LTD. for export to  
NEAR, MIDDLE and FAR EAST and AUSTRALASIA*

*Submit Enquiries to:—*

**HOWARDS & SONS, LTD., ILFORD, ESSEX**  
**MAY & BAKER, LTD., DAGENHAM, ESSEX**  
**WHIFFEN & SONS, LTD., FULHAM, S.W.6**

## PALESTINE POTASH LTD.

Registered Office:  
62 PALL MALL  
LONDON, S.W.1

Sole Selling Agents:—  
**C. TENNANT SONS & CO. LTD.**  
15 America Square, London, E.C.3

Potash House  
King George Avenue  
JERUSALEM

*in these trying times —*



### INDICATIONS

General fatigue and debility,  
hypertension, infective condi-  
tions, night blindness.

### PACKINGS AND PRICES

80 tablets .. ..	3/4½
250 tablets .. ..	9/6
1000 tablets .. ..	30/7½

(Including Purchase Tax) P.A.T.A. List

**CAROVIT**  
CHLOROPHYLL BRAND TABLETS

CONTINENTAL LABORATORIES LTD BRUNEL ROAD LONDON. W.3.

CHINGFORD.

Sir, "I have had much difficulty in getting the Curicones in this district."

BLACKPOOL.

Sir, "Having recently been recommended to try your Curicones for my Rheumatism, I am unable to find any chemist in the town stocking same."

Withington, MANCHESTER.

Dear Sir, "Unfortunately the bottle she got seems to be the last one obtainable in Withington."

*Are you  
losing trade  
this way?*

IF you find that your supplier is unable to fill your CURICONES order, write to us giving the name of your wholesaler, and we will do everything we can to get stocks to you without further delay.

Supplies, of course, will still be charged through your usual wholesaler.

Please note that the new prices of CURICONES, including Tax, are: Small size 5s., Large size 24s.

CURICONES is a P.A.T.A. line, showing 33½% profit.

*There are at present enough*

# CURICONES

*to give EVERYONE a fair share*

**ORDER THROUGH YOUR USUAL WHOLESALER**

Stephen Matthews & Co. Ltd., 19/21 Farringdon St.,  
London, E.C.4



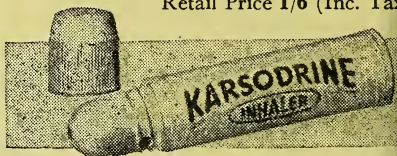
## Defended . .



Defence in depth is major strategy in modern defensive warfare. Outposts of defence lie well beyond the shores of this island citadel. Similarly modern medicine's defence against the insidious attack of pathogenic organisms has many facets. Notable among these is the maintenance of the barriers against systemic infiltration of germs through the nasal mucosa.

Decongestion of the turged mucosa in acute and chronic rhinitis, hay-fever, sinusitis is rapidly effected by use of the Karsodrine Inhaler. Maximal shrinkage with corresponding symptomatic relief is obtained within five minutes. The powerful volatile vaso-constrictor in the Inhaler penetrates to the uttermost recesses of the nasal cavity sinuses, securing optimal drainage and aeration. Only one cap to remove, the Karsodrine Inhaler is eminently simple to use.

Retail Price 1/6 (Inc. Tax)



**FORMULA:** Amphetamine, 0.330 grm.; Cineole, 0.093 grm.; Ol. Citronell, 0.026 grm.; Methyl Salicyl, 0.023 grm.; Ol. Cedri, 0.005 grm.; Menthol, 0.049 grm.; Ol. Eucalypt, 0.089 grm.

Apart from its ass efficacy the Karsodrine Inhaler is an excellent financial proposition. Retail Price is 1/6d. (tax) which yields 3% per dozen profit. It applies equally to small quantities if ordered other "Griffiths Hughes" products.

**E. GRIFFITHS HUGHES  
LIMITED**

**ADELPHI, SALFORD  
MANCHESTER**

**A PRODUCT OF E. G. LABORATORIES**





# *Patience*

## *rewarded*

Many chemists will have noticed that we are now implementing our recent promise regarding *substantially increased releases* of Ribena Blackcurrant Syrup. Our output is many times greater than it was even a month ago.

Now that so many additional chemists are handling Ribena we should like to thank our pioneer stockists for their loyal co-operation in restricting supplies to children, invalids and medical prescriptions. We feel sure that this policy will be faithfully maintained by all

distributors notwithstanding the increased supplies now available. A printed card may be had on request which will support chemists in giving effect to Ministerial requests that Ribena should be reserved as indicated above.

In the interest of Transport Economy retailers who do not buy from us are asked to order Ribena from their nearest wholesaler.

New controlled price 2/1d.

***Ribena***  
**BLACKCURRANT SYRUP**

*A rich source of Vitamin C*

*Carters are also officially appointed manufacturers of*  
**NATIONAL ROSE HIP SYRUP**

**H. W. Carter & Co., Ltd., The Old Refinery, Bristol, 2**

*Established over 100 years*

Vironita is manufactured under independent analytical control and fulfils the special requirements of a consulting scientific and analytical staff with regard to purity and quality.

All stocks of Vironita on sale bearing the formula label are warranted to comply with the Food & Drugs Act, the Pharmacy & Medicines Act, 1941, and all Statutory requirements.

### IMPORTANT NOTICE

We desire again to emphasise that all stocks without the formula label must be withdrawn from sale and from exhibition. Please advise us immediately what stock without the formula label you have, so that we may arrange to replace with new stock free of charge.



NO  
LICENCE  
REQUIRED

# VIRONITA

Pronounced VYRO-NIGHT-A

M. CALTHORPE & CO., Vineyard Works, Ossett

**DR. NIBLETT'S  
VITAL RENEWER  
NERVE SEDATIVE**

**EFFECTIVE IN ALL  
NERVOUS AFFECTIONS**

*Famous for 70 years in the treatment of*

- NERVE SHOCK
- HEADACHE
- NEURITIS
- BRAINSTORMS
- SLEEPLESSNESS
- BRAIN FOG
- IRRITABILITY

Retail Price  
5/-  
Per Bottle

**TERMS: 33 1/3% to Chemists or through  
your Wholesalers.**

Prepared by —  
**C. P. NIBLETT**  
10 LICHFIELD TERRACE  
RICHMOND, SURREY

**STILL THE BEST REMEDY FOR  
ASTHMA**

**Dr. SINGHA  
ASTHMA  
TABLETS**

—TIONS daily

A LONDON CHEMIST writes:  
"I am delighted to recommend Dr. Singha Tablets to my Asthma-suffering customers, as I am convinced there is no remedy to equal it."

Prices: 1/6, 5/-, 12/-, 20/-  
(exclusive of Purchase Tax)

**THE DR. SINGHA CO., LTD.**  
CAERNARVON  
NORTH WALES



# To save you trouble...

continually receive requests from our many customers for lines which, on account of the war, are no longer procurable. To avoid unnecessary correspondence we give a list of lines we still manufacture and/or distribute. The list is subject to alteration, and owing to production difficulties we cannot guarantee immediate delivery.

ANTI-BI-SAN  
(Adults' & Childrens')

CACHET MACHINES

CAL-MA-VITE

CARNATE NAIL POLISH (L of S)

CHRISTY LANOLINE (L of S)  
(Tubes and pots)

CO-DE-CO (PER-DE-CO)

Dr. PAGE BARKER SCURF LOTION

Dr. DELANCY'S OINTMENT

DOC H CATARRH POWDER,

ERGOAPIOL

FROZOCLONE (L of S)

GLYCO THYMOLINE

GORUN CACHETS

GORUN AMPOULES

KREMEL HAIR TONIC (L of S)

LYSOFORM

CHRISTY ANTISEPTIC EMULSION

CHRISTY LIQUID LANOLINE (L of S)

M.O. (Magnesia Oil)

Mrs. WINSLOW'S SYRUP

MUSTEROLE

NIVEA CREME (L of S)

PYSHAN POINTS TEA

RU-EEZE

RAYBURNS COUGH ELIXIR

SANOLEN ASTHMA TABS.

INHALANT & INHALERS

SPIC DEODORANT

ZEPTO PENCILS

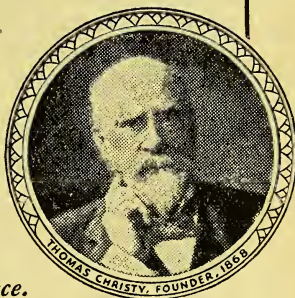
SONASTA

CACHETS

HEALEX

GRIPS

AOLAN



the goods you usually buy from us are not listed. You may fairly safely assume that they are now obtainable.

*Keep list for future reference.*

*Thos. Christy & Co Ltd.*  
OLD SWAN HOUSE, CASTLE STREET,  
FARNHAM, SURREY

# RHEUMAGIC LINIMENT

**WATCH YOUR STOCKS  
AND BE READY  
TO MEET THE DEMAND**

*Press and Cinema Advertising  
pounds home its message*

## RHEUMAGIC BRAND FORMULA OILS ARE IN DEMAND

We are showing powerful little films throughout the country every week and chemists themselves write to tell us of the good results.

Rheumagic is a first class line. **WATCH YOUR STOCKS.** Don't have to tell your customers that you'll get it for them. When people need Rheumagic they want it—**AT ONCE.**



# Rheumagic

Brand

## FORMULA OILS

**8½d., 1/5d., and 3/4½d. per bottle**  
(including purchase tax)

INTERNATIONAL LABORATORIES LTD  
CHARLBURY :: OXFORD

**THE BIG WINNER**



# PROPAX

READ TRADE MARK  
PAIN RELIEVING TABLETS

### TRADE TERMS (P.A.T.A.)

Retail	Wholesale
6½d. inc. P.T.	4/5 doz. (packed in 3 doz. display outer)
1/5	11/3
2/6	19/3

Sole Distributors:—  
**SPLENDOR LTD.,** 5 Beasmarket Hill, NOTTINGHAM  
and 7c Lower Belgrave Street, London, S.W.1

## The EMMET DISTRIBUTING CO. LTD.

7 Park Lane, London, W.1, take pleasure in announcing their appointment as sole distributors throughout the British Isles to the Chemists Trade for

### JIX FLUID EXTRACT OF BEEF

retailing at 1/6½d. per 3 oz. bottle.  
Nationally Advertised. Generous trade terms. Please send for full details to above address.

Dr. White's

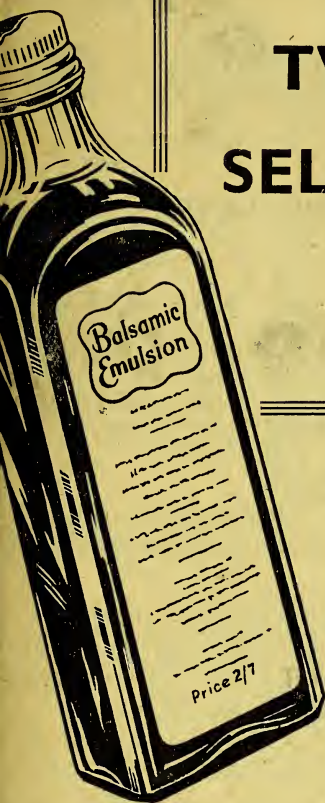


Manufactured only by

**J. F. WHITE & CO., LTD.**

Lovington Laboratory, Benson St., Leeds, 7





# TWO GRAND SELLING POINTS IN ONE!

Cures the cough and restores lost strength — that's the sales story of Balsamic Emulsion. And that is why this unique curative tonic is finding its way into more and more homes. It can be *your* best winter line — your first order will be followed quickly by repeats.

# Balsamic

BRAND

# EMULSION

CURATIVE TONIC

Retailing at  
1/7, 2/7 and 8/-

Made by  
**F. W. HAMPSHIRE  
& CO., LTD.**

Manufacturing Chemists  
Sunnydale, Derby.

**MOORE MEDICINAL PRODUCTS**

LIMITED  
MANUFACTURING CHEMISTS  
ABERDEEN and LEEDS



7 Bon-Accord Square, Aberdeen

November 28, 1942

Dear Mr. Chemist.

**BROVON ASTHMA INHALANT**

The news is good. So is this product.

Right now, we are advertising Brovon nationally in an ethical way. The results have far exceeded our expectations but they require your co-operation.

From all parts of the country we are receiving requests for medical samples of Brovon and these are being despatched by return of post.

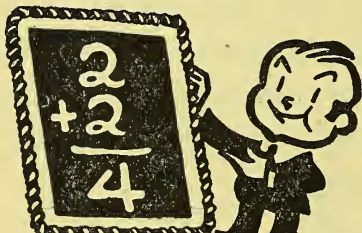
Our experience has been that once an asthmatic tries Brovon his or her search for the perfect alleviator is ended. This means that you will be asked for Brovon repeatedly. It is, therefore, up to you to stock the product because, as Members of the C.F., it is only through you that we can reach the public.

We honestly think that Brovon is pre-eminent in the treatment of Asthma by Inhalation and we have no hesitation in guaranteeing every one of you against loss on your initial order for this product.

If you do not already stock Brovon, order now. One dozen bottles, with bonus, will cost you 60/- plus purchase tax, and retail for 97/6 plus purchase tax.

Yours very truly,

MOORE MEDICINAL PRODUCTS LTD.

**50 Years of Adding Up**

Simple addition over half a century shows the Chemist what the public goes on thinking -- and doing -- about BOX'S PILLS. When times are difficult and food is 'austere' demand for these well-known Indigestion Pills is brisker than ever, so give them a good show. Display stands free.

P.A.T.A. Retail Prices

**BOX'S PILLS** 1/3, 3/-, 4/10 1/2,  
12/-, 21/9

W. H. BOX, KING ST., PLYMOUTH. Including Purchase Tax

**SURPLUS STOCKS**

STEARIC ACID. Triple pressed. Finest Cosmetic quality. 4/6 lb. (182-lb. bags); 5/- lb. (14-lb. boxes). Liquid Shampoo. Olive or Coconut 8/6 gallon (4-gallon lots). Brilliantine-Jasmine 15/- gallon (4 galls. only).  
WHITE OPAL JARS. 2 oz., Black tops, 20 gross 125/- gross.  
White Glass Jars. 3 oz., screw caps, 35 gross 35/- gross.  
White Glass Flasks. 4 oz., screw caps, 25 gross 35/- gross.  
Perfume Bottles (French fluted), 1 1/2 oz., sprinkle necks, 40 gross. 84/- gross.  
Samples at bulk prices.

ATLAS TRADING COMPANY,  
26 Edgar Street, St. James Square, HULL

Living Profit Guaranteed 46 Years on the P.A.T.A.

Awarded Certificate of Merit at the Tasmanian Exhibition, 1891

**KEARSLEY'S** (150 Years' Reputation)

**WIDOW WELCH'S** Original  
**FEMALE PILLS**

10d. BOX PROFIT by ordering 1 dozen 2/10 size Bonus box given on every dozen (13). It pays to push this size.

N.B.—These Pills do not contain any deleterious or prohibitive drugs, and can be sold with safety

**C. & G. KEARSLEY, LTD.**

71 DARTMOUTH RD., FOREST HILL, LONDON, S.E.2  
Established 1787 In the Reign of King George II



# Optabs

EYE LOTION TABLETS



## EXTENSIVE ADVERTISING • BIG PROFITS

Forceful National Advertising has put Optabs Eye Lotion Tablets in the front rank of leading "quick sellers." Cash in on the quick dividends which this profit-selling line is paying to all who stock and display it. Secure your "Cash with Order Parcel" of this ready seller right away.

**3 CASH WITH ORDER PARCELS**

**£1-12-6**  
(Inc. Tax)

3 Dozen .. 10d.  
6 Only .. 3/4

**£3-11-8**  
(Inc. Tax)

6 Dozen .. 10d. (13 to  
1 Dozen .. 3/4 Doz.)  
2 Only .. 5/6

**£11-11-2**  
(Inc. Tax)

18 Dozen .. 10d. (13 to  
3 Dozen .. 3/4 Doz.)  
1 Dozen .. 5/6

RETAIL 10d., 3/4, 5/6 (Inc. Tax); TRADE, 6/-, 24/-, 40/- (Plus Tax).

**OPTABS LTD., 24/28 CHAPEL STREET BRADFORD. Telephone IO339**

# Episeps

Reg'd

RETAIL PRICE

**1/6**

INC. TAX

## GERMICIDAL THROAT TABLETS

**ETHICAL PRODUCT FOR CHEMISTS ONLY**

**BACTERIOLOGICALLY TESTED**, so that one tablet dissolved in 10 c.c.s normal saline will destroy a standardised broth culture of haemolytic streptococcus, pneumococcus, non-haemolytic streptococcus, staphylococcus aureus, and micrococcus catarrhalis which are the common invaders of the throat membranes.

**SAFEGUARD WINTER TRADE  
SAFEGUARD CUSTOMERS  
SAFEGUARD GOODWILL  
SAFEGUARD PROFIT**

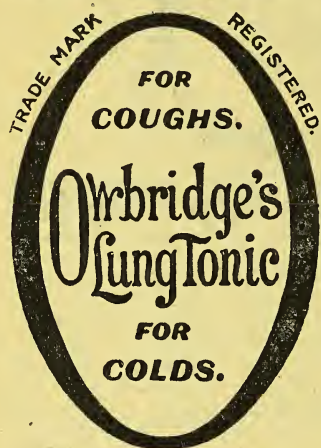
BY RECOMMENDING  
EPISEPS, the throat tablet which is  
bacteriologically tested for Germicidal activity.

RETAIL 1/6. TRADE PRICE 10/6 per doz. (Inc. tax)

1 GROSS CASH WITH ORDER **£7 : 3 : 10** (Inc. Tax)

**EPISEPS LTD., EASTBROOK BUILDINGS, LEEDS RD., BRADFORD**

# SUPPLIES ARE LIMITED



We regret that owing to the shortage of raw materials we have been compelled to ration supplies to our customers.

Retail Price - 1/2 per bottle  
including purchase tax

Gross Lots - 8/6 per dozen  
excluding purchase tax

Under 1 Gross 9/- per dozen  
excluding purchase tax

W. T. OWBRIDGE, Ltd., The Laboratory, HULL

## MILLAMALT *The* VITAMIN MALT FOOD

With Guaranteed Complement of Vitamins A, B, C & D  
*Sole Manufacturers.*  
JEFFREYS, MILLER & Co. Ltd. Leyland Mills, WIGAN. London Dist. 19 Brookside Road, N. 19

THIS TRADE MARK is a sign of steady sales all-the-year round. E.N.T. Powders and Capsules are profitable lines.

Ask for samples and trade terms.

E.N.T. Manufacturing Co. Ltd.  
431 GLOUCESTER ROAD, BRISTOL 7



## TAMPAX

*Sanitary Protection WORN INTERNALLY*

Sole Distributors: Splendor Ltd., 5 Beastmarket Hill, Nottingham, for Tampax Ltd., Belvue Road, Northolt, Middlesex

## D.D.A. REGISTERS, SPIRIT & POISON REGISTERS.

JAMES TOWNSEND & SONS, Ltd., EXETER.  
Chemists' Printers.



Member of the  
Chemists Friend  
Association

# Announcement

Member of the  
Chemists Friend  
Association

## "ZEMS"

### HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLET FOR  
COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

*We have now joined Chemists Friend Association*

SUPPLIES MAY BE OBTAINED FROM C.F. WHOLESALE HOUSES

**ZEMS, LTD., 718-724 SEVEN SISTERS ROAD, LONDON, N.15**

#### Continuous and Steadily Advertised Goods FOR DESTROYING RATS AND MICE

##### DANYSZ VIRUS

Retail Price (Protected)	Net Wholesale Price
us for Rats and Mice, single tube, 2/-	15/- per doz.
3 tubes, 5/-	
us for Mice only single tube, 1/6	9/- "
3 tubes, 3/-	

Expiry-tubes returned to us postage paid will be exchanged free of charge.

##### Danzysz Virus in Liquid Form

Retail Price	Wholesale Price
Bottles 6/- each	4/6 each
" 4/6 "	3/9 "

##### HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or  
33 1/3% Cash with Order.

Retail	Monthly A/c	Cash with Order
all tins 10/-	7/6	6/8
" " 18/-	13/6	12/-
" " 80/-	60/-	53/4

##### DANZO BEETLE POWDER

destroying Blackbeetles, Cockroaches, Crickets, etc.

Retail Prices (Protected)	Wholesale Prices
cartons 9d. each	6/9 per doz.
" 1/6 "	13/6
" 3/- "	27/-

Danzo Beetle Powder will not deteriorate by keeping.

##### CARRIAGE PAID ON ALL ORDERS

To be obtained from

##### HALLER LABORATORIES, LTD.

325 Borough High Street, LONDON, S.E.1

grams: "Virudana, Sedist, London." Telephone: Hop. 2717

## CONTROL OF HEAD LICE

Nits and Head Lice can now be dealt with quickly and economically without unpleasant evidence of treatment.

An approved formula now being used extensively by Public Health Authorities.

## Semprolia

### INSECTICIDE

for the Control of Nits and Head Lice.



**SEMPROLIA IS IN URGENT AND  
RAPIDLY INCREASING DEMAND.**

Retail (2-oz.) 1/1 1/2d. including P.T. List 8/- doz.  
Packed in 2-dozen outers.

STEMCO LTD., 128, Albert Street, London, N.W.1

**INTERNATIONAL CHEM. CO. LD.****REVISED CONTENTS OF STANDARD PARCELS**

**O**WING to shortage of labour and packing materials (and in order to comply with the Government's demand for utmost economy), we have been compelled to restrict the direct supply of our four main products to pre-packed parcels only. To meet the requests of a number of our customers, we have recently revised our original parcels to the contents shown below. Retailers requiring assortments other than these can obtain from their Wholesalers.

The minimum for a direct order remains at £5, which can be made up by parcel 'A'; or by any two of parcels 'B' to 'L'; or by any one of 'B' to 'L' plus a selection of our other preparations, such as Alkia Saltrates, Bisuroids, Nemakol and Nemolin. Toilet lines may also be included to the value of your quota.

Co-operation allowances: On orders of £5.....7½%    £10.....10%

<b>A</b>	1 doz. 1/5 Bismag Powder . . . . .	12 0
	½ " 2/10 " " " " . . . . .	12 0
	2 " 1/5 " " Tablets . . . . .	1 4 0
	1 " 2/10 " " " " . . . . .	1 4 0
	1 " 1/9 Pineate Honey Cough-Syrup . . . . .	13 9
	1 " 2/3 Limestone Phosphate . . . . .	18 0
	1 " 1/5 Freezone Corn Remover . . . . .	11 3
		<u>£5 15 0</u>
	Purchase Tax on all goods and on bonus . . . . .	1 1 1
		<u>£6 16 1</u>

<b>B</b>		
	3 doz. 1/5 Bismag Powder . . . . .	1 16 0
	1 " 2/10 " " " " . . . . .	1 4 0
		<u>£3 0 0</u>
	Purchase tax on above and on bonus . . . . .	11 8
		<u>£3 11 8</u>

<b>C</b>	3 doz. 1/5 Bismag Tablets . . . . .	1 16 0
	1 " 2/10 " " " " . . . . .	1 4 0
		<u>£3 0 0</u>
	Purchase Tax on above and on bonus . . . . .	11 8
		<u>£3 11 8</u>

<b>D</b>	1 doz. 1/5 Bismag Powder . . . . .	12 0
	2 " 1/5 " " Tablets . . . . .	1 4 0
	1 " 2/10 " " " " . . . . .	1 4 0
		<u>£3 0 0</u>
	Purchase Tax on above and on bonus . . . . .	11 8
		<u>£3 11 8</u>

<b>E</b>	1 doz. 1/5 Bismag Powder . . . . .	12 0
	½ " 2/10 " " " " . . . . .	12 0
	2 " 1/5 " " Tablets . . . . .	1 4 0
	½ " 2/10 " " " " . . . . .	12 0
		<u>£3 0 0</u>
	Purchase Tax on above and on bonus . . . . .	11 8
		<u>£3 11 8</u>

<b>F</b>	1 doz. 2/10 Bismag Powder . . . . .	1 4 0
	1½ " 2/10 " " Tablets . . . . .	1 16 0
		<u>£3 0 0</u>
	Purchase Tax on above and on bonus . . . . .	11 8
		<u>£3 11 8</u>

<b>G</b>	1½ doz. 1/5 Bismag Powder . . . . .	18 0
	3 " 1/5 " " Tablets . . . . .	1 16 0
		<u>£2 14 0</u>
	Purchase Tax on above and on bonus . . . . .	10 6
		<u>£3 4 6</u>

<b>J</b>	2 doz. 1/5 Freezone Corn Remover . . . . .	1 2 6
	1 " 2/3 Limestone Phosphate . . . . .	18 0
	1 " 1/9 Pineate Honey Cough-Syrup . . . . .	13 9
		<u>£2 14 3</u>
	Purchase Tax . . . . .	9 0
		<u>£3 3 3</u>

<b>K</b>	4 doz. 1/9 Pineate Honey Cough-Syrup . . . . .	2 15 0
	Purchase Tax . . . . .	9 2
		<u>£3 4 2</u>

<b>L</b>	6 doz. 1/5 Freezone Corn Remover . . . . .	3 7 6
	Purchase Tax . . . . .	11 3
		<u>£3 18 9</u>

Above consumer prices include Purchase Tax

**BONUS TERMS :** 14 to the dozen on 'Bisurated' Magnesia Powder and Tablets in return for fourteen days' window display. 'Bisurated' Magnesia Powder—Bonus in Mint Powder. 'Bisurated' Magnesia Tablets—Bonus in Tablets.

All goods sent Carriage Paid in returnable boxes

**BRAYDON ROAD LONDON N16**



# The CHEMIST AND DRUGGIST SUPPLEMENT

28 ESSEX STREET, LONDON, W.C.2

NOVEMBER 28  
1942

This Supplement is included in every copy of the Chemist & Druggist

Advertisements in this supplement must be prepaid and should reach us not later than WEDNESDAY week of issue. Box Office numbers cost 1/-. Late advertisements will be held over to following week

## ORRIDGE & CO.

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